

5

CODE ANALYSIS

APPLICABLE CODES

Year	Year
International Building Code 2006	National Electrical Code 2005
International Mechanical Code 2006	Uniform Code for Building Conservation N.A.
International Plumbing Code 2006	ADA Accessibility Guidelines 2006
International Fire Code 2006	
International Energy Conservation Code 2006	

A. Occupancy and Group: S2 GARAGE B OFFICES ACCESSORY

Change in Use: Yes NO No X Mixed Occupancy: Yes X No NO

Special Use and Occupancy (e.g. High Rise, Covered Mall): N.A.

B. Seismic Design Category: B Design Wind Speed: 90 MPH, EXPOSURE C

C. Type of Construction (circle one):

I I II II III III IV V V
A B A B A B HT A B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):

North: 0 South: 0 East: 0 West: 0

E. Mixed Occupancies: YES Nonseparated Uses: YES

F. Sprinklers:

Required: NO Provided: NO Type of Sprinkler System: N.A.

G. Number of Stories: 1 Building Height: 24'-6"

H. Actual Area per Floor (square feet): 4,997 SF

I. Tabular Area: 9000 SF

J. Area Modifications:

a) $A_a = A + \left[\frac{A_1 I_1}{100} \right] + \left[\frac{A_2 I_2}{100} \right]$ $I_1 = 100 \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$

$15750 \text{ SF} = 9000 + \left[\frac{9000 (75)}{100} \right] + \left[\frac{9000 (0)}{100} \right]$

b) Sum of the Ratio Calculations for Mixed Occupancies:

$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$ $\frac{4,997 \text{ SF}}{15750 \text{ SF}} = .317$

c) Total Allowable Area for:

1) One Story: 15750 SF

2) Two Story: $A_a(2)$ N.A.

3) Three Story: $A_a(3)$ N.A.

d) Unlimited Area Building: Yes NO No X Code Section: NO

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0	N.A.	Floors - Ceiling Floors	0	N.A.
Interior Bearing Walls	0	N.A.	Roofs - Ceiling Roofs	0	N.A.
Exterior Non-Bearing Walls	0	N.A.	Exterior Doors and Windows	0	N.A.
Structural Frame	0	N.A.	Shaft Enclosures	0	N.A.
Partitions - Permanent	0	N.A.	Fire Walls	0	N.A.
Fire Barriers	0	N.A.	Fire Partitions	0	N.A.
			Smoke Partitions	0	N.A.

L. Design Occupant Load: 13 (Per IBC TABLE 1004.1.2 Using 500 S.F. per Occupant for garages, 100 S.F. for office areas)

Exit Width Required: 3.9 Exit Width Provided: 36

M. Minimum Number of Required Plumbing Facilities: "UNISEX (IBS SECTION 2902.2 EXCEPTION 2)"

Actual Occupant Load: 4 BASED ON ACTUAL UDOT STAFFING

a) Water Closets - Required (m) 1 (f) 1 Provided (m) 1 (f) 1

b) Lavatories - Required (m) 1 (f) 1 Provided (m) 1 (f) 1

c) Bath Tubs or Showers: 1 (EMERGENCY EYEWASH)

d) Drinking Fountains: 1 Service Sinks: 1

MAXIMUM EMPLOYEES PERMITTED = 15

GENERAL NOTE:

1. CONSTRUCTION OF NEW STATE BUILDINGS AND REMODELING OF EXISTING BUILDINGS SHALL COMPLY WITH ALL THE REQUIREMENTS OF THE DFCM STANDARDS, INCLUDING ENHANCED ACCESSIBILITY. THE DFCM STANDARDS CAN BE FOUND AT THE FOLLOWING WEB SITE: www.dfc.utah.gov.

2. STEEL BUILDINGS SHALL COMPLY WITH IBC SECTION 106.3.4.2, DEFERED SUBMITALS.

CLIENT

STATION #3437A
SR-44 @ M.P. 0.5 ±
GREENDALE UTAH

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STATE OF UTAH
RALPH M. STANISLAW
95-310818-0301
LICENSED ARCHITECT

ISSUE

MARK	DATE	DESCRIPTION
1	5/10/07	DFCM CODE REVIEW
	05/01/07	CONSTRUCTION DOCUMENTS

DFCM PROJECT NO: 07029900

ARCHIPIX PROJECT NO: 0708.01

DRAWN BY: A. PHILLIPS

CHECKED BY: R. STANISLAW

SCALE: NONE

DATE: MAY 1, 2007

SHEET TITLE

COVER SHEET

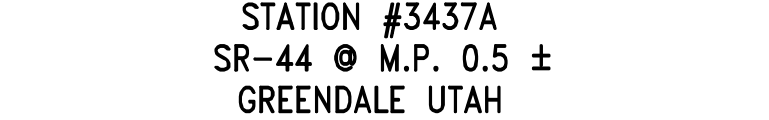
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- ## GRAPHIC SYMBOLS

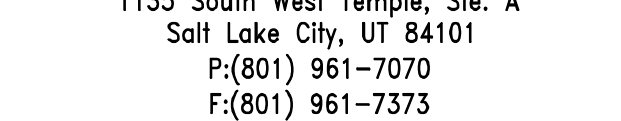


ARCHITECTURALSTRUCTURALELECTRICAL

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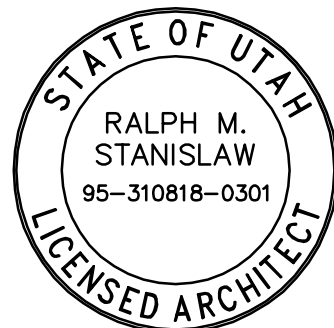


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CONSULTANTS

PROFESSIONAL SEAL



ISSUE

	05/01/07	CONSTRUCTION DOCUMENTS
MARK	DATE	DESCRIPTION

DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	NONE
DATE:	MAY 1, 2007

SHEET TITLE

GENERAL NOTES, ABBREVIATIONS, LEGENDS AND DRAWING INDEX

G001

MASTER KEYNOTE LIST – (APPLIES TO ARCHITECTURAL DRAWINGS ONLY)

DIVISION 1 GENERAL REQUIREMENTS

DIVISION 2 SITEWORK

02200 EARTHWORK

02200.A0 COMPACTED FILL
02200.B0 GRAVEL BASE
02200.C0 SAND

02512 ZERO VOIDS ASPHALT PAVING

02512.A0 ZERO VOIDS ASPHALT PAVING (THICKNESS)

02513 ASPHALT CONCRETE PAVING

02513.A0 ASPHALT CONCRETE PAVING

DIVISION 3 CONCRETE

03053 CONCRETE WATER PROOFING ADMIXTURE

03053.A0 CONCRETE WATER PROOFING ADMIXTURE

03054 OLIOPHOBIC TOPICAL CONCRETE SEALER

03054.A0 OLIOPHOBIC TOPICAL SEALER

03300 CAST-IN-PLACE CONCRETE

03300.A0 CONCRETE – SLAB ON GRADE
03300.A1 CONCRETE SLAB-ON-GRADE – RE: STRUCTURAL
03300.A2 CONCRETE SLAB-ON-GRADE (THICKNESS)
03300.B1 CONCRETE SLAB – RE:STRUCTURAL
03300.B2 CONCRETE SLAB (THICKNESS)
03300.C0 FOOTING
03300.C1 FOOTING – RE: STRUCTURAL
03300.D0 CONCRETE PAD
03300.E0 RETAINING WALL
03300.F0 CAST-IN-PLACE REINFORCED CONCRETE
03300.G0 CONCRETE OVER METAL DECK – RE:STRUCTURAL
03300.H0 FOUNDATION WALL, RE: STRUCTURAL
03300.H1 CONCRETE PIER, RE: STRUCTURAL
03300.J0 REINFORCING
03300.J1 REINFORCING – RE: STRUCTURAL
03300.J2 #4 BARS CONTINUOUS (QUANTITY)
03300.J3 #5 BARS CONTINUOUS (QUANTITY)
03300.K1 THICKENED SLAB, RE: STRUCTURAL
03300.L1 30# FELT
03300.M1 MOISTURE BARRIER
03300.N0 CONCRETE CURB
03300.P3 CONTROL JOINT RE: STRUCTURAL
03300.P4 CONSTRUCTION JOINT
03300.P6 CHAMFER JOINT
03300.P7 SAWCUT CONSTRUCTION JOINT, TYP.
03300.S1 SPLASH BLOCK
03300.S2 CONCRETE SWALE
03300.T1 CONCRETE @ STAIR TREAD

DIVISION 5 METALS

05120 STRUCTURAL STEEL

05120.A1 STEEL BEAM – RE: STRUCTURAL – GALVANIZED
05120.B1 COLUMN – RE: STRUCTURAL – GALVANIZED
05120.C1 TUBE STEEL BEAM – RE: STRUCTURAL – GALVANIZED

05310 STEEL DECK

05310.A1 METAL DECK – RE: STRUCTURAL

05400 COLD-FORMED METAL FRAMING

05400.X1 STEEL STUD
05400.X2 STEEL TRACK
05400.X3 STEEL JOIST – RE:STRUCTURAL

05500 METAL FABRICATIONS

05500.A1 ANGLE – RE: STRUCTURAL
05500.A2 STEEL ANGLE (SIZE) – GALVANIZED
05500.B0 CLIP ANGLE
05500.B2 CLIP ANGLE (SIZE)
05500.C1 SHEET METAL ANGLE – 22 GA. – GALVANIZED (SIZE)
05500.D0 CHANNEL (SIZE)
05500.D1 CHANNEL – RE: STRUCTURAL
05500.D2 HAT CHANNEL (SIZE)
05500.E0 PLATE (SIZE)
05500.E1 PLATE – RE: STRUCTURAL
05500.E2 PLATE (SIZE) – GALVANIZED
05500.E3 BENT PLATE – SEE STRUCTURAL
05500.J1 PIPE BOLLARD (DIAMETER) – GALV. & PAINTED
05500.M1 CHECKERED PLATE (SIZE) GALVANIZED
05500.P0 ANCHOR BOLT(S)
05500.P1 ANCHOR BOLTS (DIAMETER, SPACING)

05500 METAL FABRICATIONS (CONT.)

05500.V0 FLOOR PLATE
05500.X1 STEEL STUD (RE:STRUCTURAL)
05500.X2 STEEL RUNNER (RE:STRUCTURAL)
05500.Y0 AIR DUCT SCREEN
05500.Y1 AIR DUCT SCREEN, RE: MECHANICAL – PAINTED
05500.Z0 CHAIN – GALVANIZED

05510 METAL STAIRS

05510.A1 LADDER RUNGS
05510.B0 LADDER RAILS
05510.C0 LADDER MOUNTING BRACKET
05510.D1 RUBBER SHOE AT BOTTOM OF EACH RAIL
05510.E1 NON SKID SURFACE @ NOSING
05510.F0 STEEL STRINGER – (SIZE)
05510.F1 STEEL STRINGER – (SIZE) – GALVANIZED
05510.G1 3/16" STEEL CLOSURE PLATE – GALVANIZED
05510.H0 CONC. FILLED METAL PAN STAIR – GALVANIZED
05510.H1 PRE-FORMED, CONC. FILLED METAL PAN STAIR TREAD – (SIZE) – GALVANIZED
05510.J1 METAL PAN STAIR SUPPORT – (SIZE) – GALVANIZED
05510.J2 PAN ANCHORAGE – (SIZE) – GALVANIZED
05510.K1 STEEL CHANNEL DECK SUPPORT – GALVANIZED

05521 PIPE & TUBE RAILINGS

05521.A1 1 1/2" O.D. STEEL GUARDRAIL
05521.A2 PIPE GUARDRAIL (DIAMETER) – GALVANIZED
05521.A3 1 1/2" O.D. PIPE GUARDRAIL – GALVANIZED
05521.B1 1 1/2" O.D. HANDRAIL
05521.B2 PIPE HANDRAIL (DIAMETER) – GALVANIZED
05521.B3 1 1/2" O.D. PIPE HANDRAIL – GALVANIZED
05521.C2 ESCUTCHEON WITH EASED EDGES (SIZE)
05521.D1 PIPE RAIL SUPPORT – GALVANIZED
05521.E1 1" I.D. PIPE RAILING ANCHOR – GALVANIZED
05521.F1 1/2" DIA. THRU BOLT

05530 GRATINGS

05530.A0 TRENCH FRAME – GALVANIZED
05530.A1 STEEL GRATE 22-W-4 (SIZE) GALVANIZED
05530.B0 ALUMINUM BAR PANELS
05530.C1 METAL GRATE PANEL – GALV.
05530.C2 METAL GRATE TREAD – GALV.

DIVISION 6 WOOD AND PLASTICS

06105 MISCELLANEOUS CARPENTRY

06105.L2 BLOCKING AS REQUIRED
06105.P1 2X4
06105.P2 2X6
06105.P6 4X4
06105.P9 2 x FRAMING, FIRE TREATED
06105.P10 PRESSURE TREATED WOOD TIMBER (SIZE)
06105.Q2 SHIM AS REQUIRED
06105.R2 SHEATHING – PLYWOOD (THICKNESS) GRADE (SIZE)
06105.R3 PROTECTION BOARD (THICKNESS)
06105.V1 EXTERIOR GRADE PLYWOOD (THICKNESS)
06105.V6 PEGBOARD (THICKNESS)
06105.Z0 ANCHOR AS REQUIRED

06402 INTERIOR ARCHITECTURAL WOODWORK

06402.A0 SILL
06402.B1 PLASTIC LAMINATE BACKSPLASH (HEIGHT)
06402.C1 PAINT GRADE WOOD CAP (THICK)
06402.H0 SHELF(YES)
06402.H1 ADJUSTABALE SHELVES (FINISH)
06402.H2 SHELVEING (DEPTH)
06402.K0 BASE UNIT (FINISH)
06402.K2 BASE UNIT W/ADJ. SHELF(YES) (FINISH)
06402.K3 BASE UNIT W/DRAWERS (FINISH)
06402.K4 BASE UNIT W/DRAWER & ADJ. SHELF(YES) (FINISH)
06402.L2 WALL UNIT W/ADJ. SHELF(YES) (FINISH)
06402.P0 COUNTERTOP
06402.P2 COUNTERTOP – P. LAM. ON 3/4" PLYWOOD
06402.X0 WORKBENCH (DEPTH)

06651 SOLID SURFACE FABRICATIONS

06651.A0 1/2" WHITE SOLID SURFACE WINDOW SILL

DIVISION 7 THERMAL AND MOISTURE PROTECTION

07901 JOINT SEALANTS

07901.A0 CONT. SEALANT
07901.B0 ASPHALT SATURATED FIBERBOARD
07901.C0 CONT. CAULK
07901.D0 JOINT FILLER
07901.G0 BACKER ROD
07901.H1 5/8" BEAD OF DE NEFF SWELLSEAL WA MASTIC
07901.H2 CONCENTRATED DRY PAC
07901.H3 CONCENTRATED SLURRY COAT

DIVISION 8 DOORS AND WINDOWS

08111 STANDARD STEEL DOORS AND FRAMES

08111.A0 PRESSED METAL FRAME
08111.A1 GROUT-FILLED PRESSED METAL FRAME
08111.B0 HOLLOW METAL DOOR
08111.C0 JAMB ANCHOR

08360 SECTIONAL OVERHEAD DOORS

08360.A0 OVERHEAD SECTIONAL DOOR
08360.B0 3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK
08360.C0 WEATHERSTRIPPING
08360.D0 DOOR GUIDE

08520 ALUMINUM WINDOWS

08520.A0 WINDOW UNIT
08520.B0 FIXED ALUM. WINDOW
08520.C0 ALUM. WINDOW W/SLIDING GLASS PANEL
08520.M0 SILL STARTER, SET IN SEALANT
08520.P0 BREAKMETAL
08520.Q0 WEATHERSTRIPPING
08520.R0 ALUMINUM FLASHING, FINISH TO MATCH WINDOW FRAME

08521 HORIZONTAL SLIDING VINYL (PVC) WINDOWS

08521.B0 FIXED VINYL WINDOW
08521.C0 VINYL WINDOW W/SLIDING GLASS PANEL

08710 DOOR HARDWARE

08710.A0 THRESHOLD
08710.B0 DOOR SWEEP
08710.C0 WEATHERSTRIPPING

08800 GLAZING

08800.C0 WIRE GLASS
08800.G1 CLEAR INSULATING GLASS (SIZE)
08800.G3 OPAQUE INSULATING GLASS

DIVISION 9 FINISHES

09255 GYPSUM BOARD ASSEMBLIES

09255.A1 GYPSUM BOARD (THICKNESS)
09255.A2 WATER RESISTANT GYPSUM BOARD (THICKNESS)
09255.B2 TYPE "X" GYPSUM BOARD (THICKNESS)
09255.C3 CEMENT BOARD (THICKNESS)
09255.H0 METAL STUD
09255.H1 METAL STUDS (SIZE, SPACING)
09255.J0 METAL RUNNER
09255.K0 DOUBLE STUDS
09255.K1 DOUBLE STUDS (GAGE)
09255.L1 7/8" X 1-3/8" METAL ANGLE
09255.L2 2-1/2" X 2-1/2" METAL ANGLE
09255.M2 METAL CORNER BEAD (TYP)
09255.P0 Z-FURRING CHANNEL
09255.Q0 7/8" METAL FURRING CHANNEL
09255.R2 CHANNEL (SIZE, SPACING)
09255.S1 8 GA. WIRE HANGERS (SPACING)
09255.S2 18 GA. WIRE TIES
09255.S3 18 GA. METAL MOUNTING STRIPS
09255.S4 14 GA. STAINLESS STEEL COUNTER TOP (FINISH)
09255.U1 SUSPENDED CEILING SYSTEM
09255.V0 EDGE TRIM (TYP)
09255.V2 LC-BEAD (PREFERRED USG 200-A TRIM)
09255.V4 VINYL TRIM

09300 TILE

09300.A1 FLOOR TILE – SEE FINISH SCHED.
09300.B1 WALL TILE – SEE FINISH SCHED.
09300.C0 TILE BASE
09300.D1 BULLNOSE TRIM UNIT
09300.E1 1/2" x 6" TILE TRIM PIECE – SEE FINISH SCHED.
09300.G1 MORTAR BED
09300.G4 WATERPROOF MEMBRANE

09660 RESILIENT TILE FLOORING

09660.A1 VINYL COMPOSITION TILE
09660.B1 VINYL TRANSITION STRIP

09678 RESILIENT WALL BASE AND ACCESSORIES

09678.E1 RUBBER BASE (SIZE)

09900 PAINTING

09900.A1 PAINT – SEE FINISH SCHED.

DIVISION 10 SPECIALTIES

10100 VISUAL DISPLAY BOARDS

10100.C0 MARKER BOARD

10425 SIGNS

10425.A0 ROOM SIGNAGE
10425.A1 OIL SIGNAGE
10425.B1 WELDING SIGNAGE
10425.C1 ACCESSIBLE SIGNAGE
10425.D1 ACCESSIBLE/UNISEX RESTROOM SIGNAGE

10500 METAL LOCKERS AND STORAGE CABINETS

10500.A0 METAL LOCKERS (WIDTH)
10500.B0 METAL STORAGE CABINETS

10522 FIRE EXTINGUISHERS, CABINETS, AND ACCESSORIES

10522.A0 FIRE EXTINGUISHER

10800 TOILET AND BATH ACCESSORIES

10800.B0 PAPER TOWEL DISPENSER & WASTE RECEPTACLE
10800.B1 SEMI-RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE
10800.C0 TOILET TISSUE DISPENSER
10800.C1 RECESSED TOILET TISSUE DISPENSER/SAN. NAP. DISPOSAL
10800.D0 MOP RACK
10800.E0 GRAB BAR
10800.E1 GRAB BAR (SHOWER)
10800.F0 ROBE HOOK
10800.F1 DOUBLE PRONG ROBE HOOK
10800.H0 SOAP DISPENSER
10800.H1 SOAP DISH
10800.P1 SHOWER CURTAIN ROD
10800.P2 SHOWER CURTAIN
10800.R1 FRAMED MIRROR (SIZE)
10800.T1 FOLDING SHOWER SEAT
10800.T0 METAL SHELF (SIZE)

DIVISION 11 EQUIPMENT

11151 MOBILE LIFT

11151.A0 MOBILE LIFT

DIVISION 12 FURNISHINGS

12511 HORIZONTAL LOUVER BLINDS

12511.A0 HORIZONTAL LOUVER BLINDS

DIVISION 13 SPECIAL CONSTRUCTION

13125 METAL ARCH BUILDING SYSTEM

13125.A0 METAL ARCH BUILDING SYSTEM
13125.B0 STANDING SEAM METAL ROOF
13125.B1 STANDING SEAM METAL ROOF RIDGE
13125.B2 STANDING SEAM METAL CANOPY
13125.C0 METAL RAIN GUTTER W/DOWNSPOUTS
13125.C1 METAL RAIN GUTTER
13125.C2 DOWNSPOUT
13125.C3 GUTTER STRAP, INSTALL AT EVERY OTHER PANEL RIB
13125.D0 METAL FLASHING
13125.D1 METAL DRIP FLASHING
13125.D2 METAL HEAD FLASHING
13125.D3 METAL SILL FLASHING
13125.D4 METAL FLASHING, FINISH TO MATCH ROOF PANELS
13125.D5 RIDGE FLASHING, TO MATCH ROOF PANELS
13125.D6 DOOR HEAD FLASHING
13125.D7 JAMB FLASHING
13125.D8 CONTINUOUS PRE-FINISHED SHEET METAL CLOSURE
13125.E0 METAL TRIM
13125.E1 JAMB TRIM
13125.E2 PANEL TRIM
13125.E3 RAKE TRIM
13125.E4 RAKE SLIDE
13125.E5 METAL EAVE CLOSURE
13125.E6 WALL CLOSURE
13125.E7 METAL OUTSIDE CLOSURE
13125.E8 CORNER TRIM
13125.E9 FRAMED OPENING HEADER
13125.F0 METAL WALL PANEL
13125.F1 METAL WALL FASTENER
13125.F2 BLIND RIVET
13125.F3 POP RIVET
13125.G0 STANDING SEAM METAL FACIA
13125.H0 BREAK METAL
13125.H1 METAL ANGLE
13125.H2 HIGH RAKE SUPPORT ANGLE
13125.H3 RAKE ANGLE
13125.H4 4" x 4" CONT. ANGLE
13125.H5 BACKUP PLATE ANGLE
13125.H6 EAVE SUPPORT ANGLE
13125.H7 EAVE STRUT

13125 METAL ARCH BUILDING SYSTEM (CONT.)

13125.J0 STRUCTURAL MEMBER – PRIMED AND PAINTED
13125.J1 STRUCTURAL GIRT – PAINTED
13125.J2 ROOF PURLIN – PAINTED
13125.J3 STRUCTURAL GIRT
13125.K0 CLIP
13125.K1 LOW PANEL CLIP
13125.L1 STEEL COLUMN – PAINTED
13125.L2 STEEL COLUMN – GALV. – PAINTED
13125.L3 STEEL COLUMN – GALVANIZED
13125.L4 STEEL COLUMN – PRIMED AND PAINTED
13125.M1 STEEL BEAM – PAINTED
13125.M2 STEEL BEAM – GALV. – PAINTED
13125.M3 STEEL BEAM – GALVANIZED
13125.M4 STEEL BEAM – PRIMED AND PAINTED
13125.N1 ANCHOR
13125.N2 FASTENER (SPACING)
13125.P1 DOUBLE BEAD TAPE SEALER
13125.P2 SEALANT
13125.P3 THERMAL BREAK
13125.Q0 METAL VENT
13125.Q1 VENT MATERIAL
13125.R0 INSULATION & VAPOR BARRIER (R-VALUE)

13930 WET-PIPE FIRE SUPPRESSION SPRINKLERS

13930.A1 FIRE RISER PIPE LOCATION, RE: MECHANICAL

DIVISION 14 CONVEYING SYSTEMS

14620 TROLLEY HOIST

14620.A0 TROLLEY HOIST (SIZE) – RE: STRUCTURAL

DIVISION 15 EQUIPMENT

15000 MECHANICAL

15050.A1 MECH. PENETRATIONS
15250.A1 PIPE INSULATION AT ALL EXPOSED PIPE
15410.A0 URINAL
15410.A1 URINAL, ACCESSIBLE
15410.B0 SINK FAUCET
15410.B1 SINK FAUCET W/ADA LEVER HANDLES
15410.C0 UTILITY SINK
15410.D1 FLOOR SINK
15410.E0 TRENCH DRAIN
15410.E1 DRAIN W/ SEDIMENT BUCKET
15410.E2 FLOOR DRAIN
15410.F0 TOILET
15412.A0 EMERGENCY SHOWER & EYE WASH
15452.A1 DRINKING FOUNTAIN
15460.A1 NATURAL GAS FIRED WATER HEATER
15490.A0 WASTE OIL PUMP
15490.B0 WASTE OIL CARTS
15490.C0 WASTE OIL PIT
15490.D0 600 GAL WASTE OIL TANK – O.F.C.I.
15491.A0 AIR COMPRESSOR
15491.B0 OVERHEAD LUBE REEL
15491.C0 OVERHEAD HOSE REEL
15600.A0 NATURAL GAS RADIANT HEATING SYSTEM
15611.A1 NATURAL GAS FIRED FURNACE
15838.A0 EXHAUST FAN, SEE MECHANICAL DRAWINGS
15861.A1 MECHANICAL DUCTWORK, SEE MECHANICAL DRAWINGS
15887.A1 LOUVER W/ BIRD SCREEN
15887.B1 INTAKE GRAVITY HOOD, SEE MECHANICAL DRAWINGS

DIVISION 16 ELECTRICAL

16442 PANELBOARDS

16442.A0 ELECTRICAL PANEL

16510 INTERIOR LIGHTS

16510.A0 INTERIOR LIGHTS

16520 EXTERIOR LIGHTS

16520.B1 EXTERIOR WALL MOUNTED LIGHTS
16520.B2 EXTERIOR WALL MOUNTED FLOOD LIGHTS

CLIENT



STATION #3437A
SR-44 @ M.P. 0.5 ±
GREENDALE UTAH

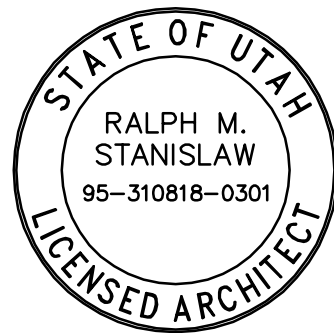
DESIGNER



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CONSULTANTS

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ISSUE

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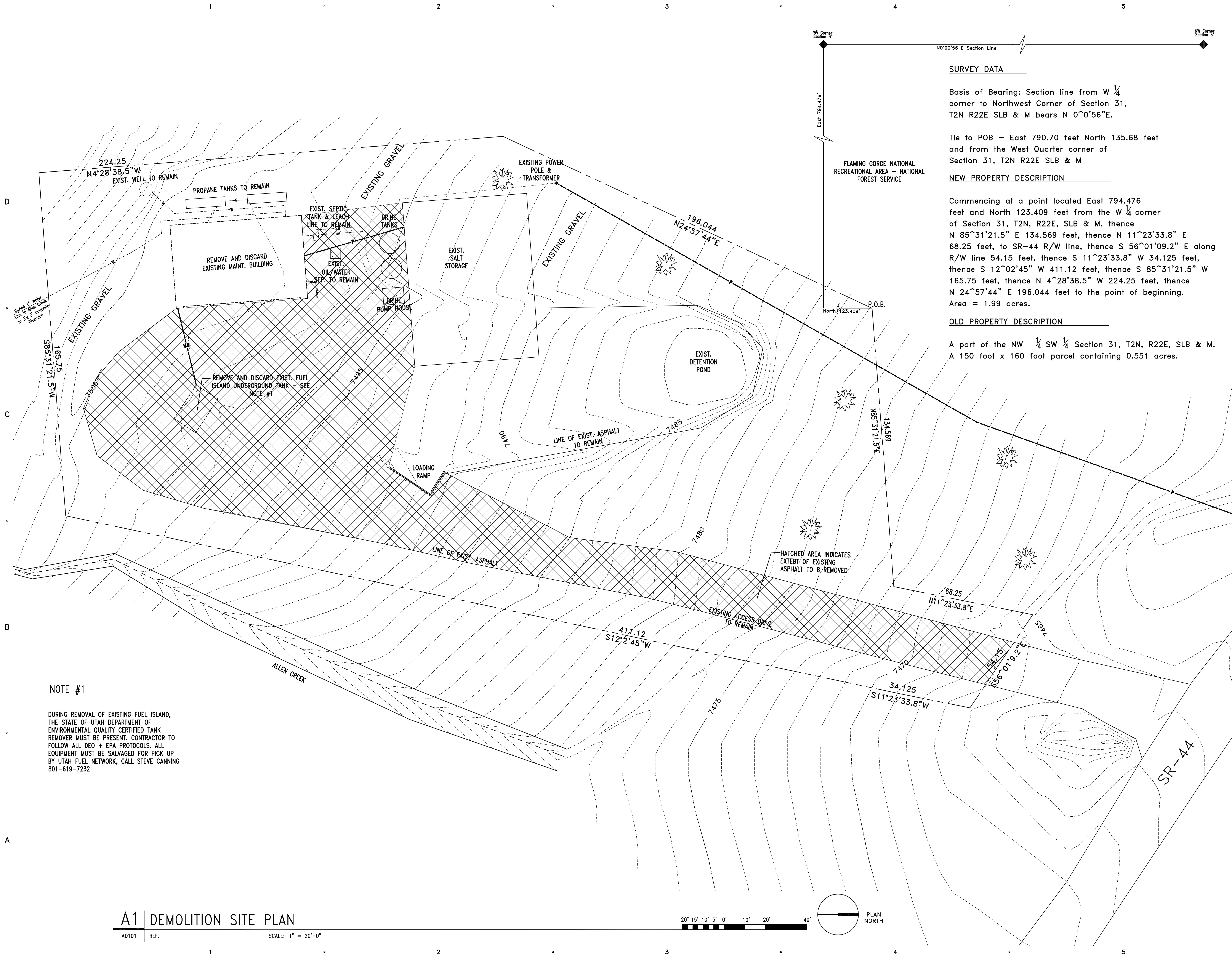
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DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	NONE
DATE:	MAY 1, 2007

SHEET TITLE

MASTER
KEYNOTE LIST

G002



CLIENT



STATION #3437A
SR-44 @ M.P. 0.5 ±
GREENDALE UTAH

DESIGNER

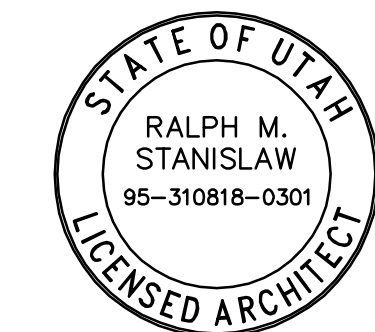


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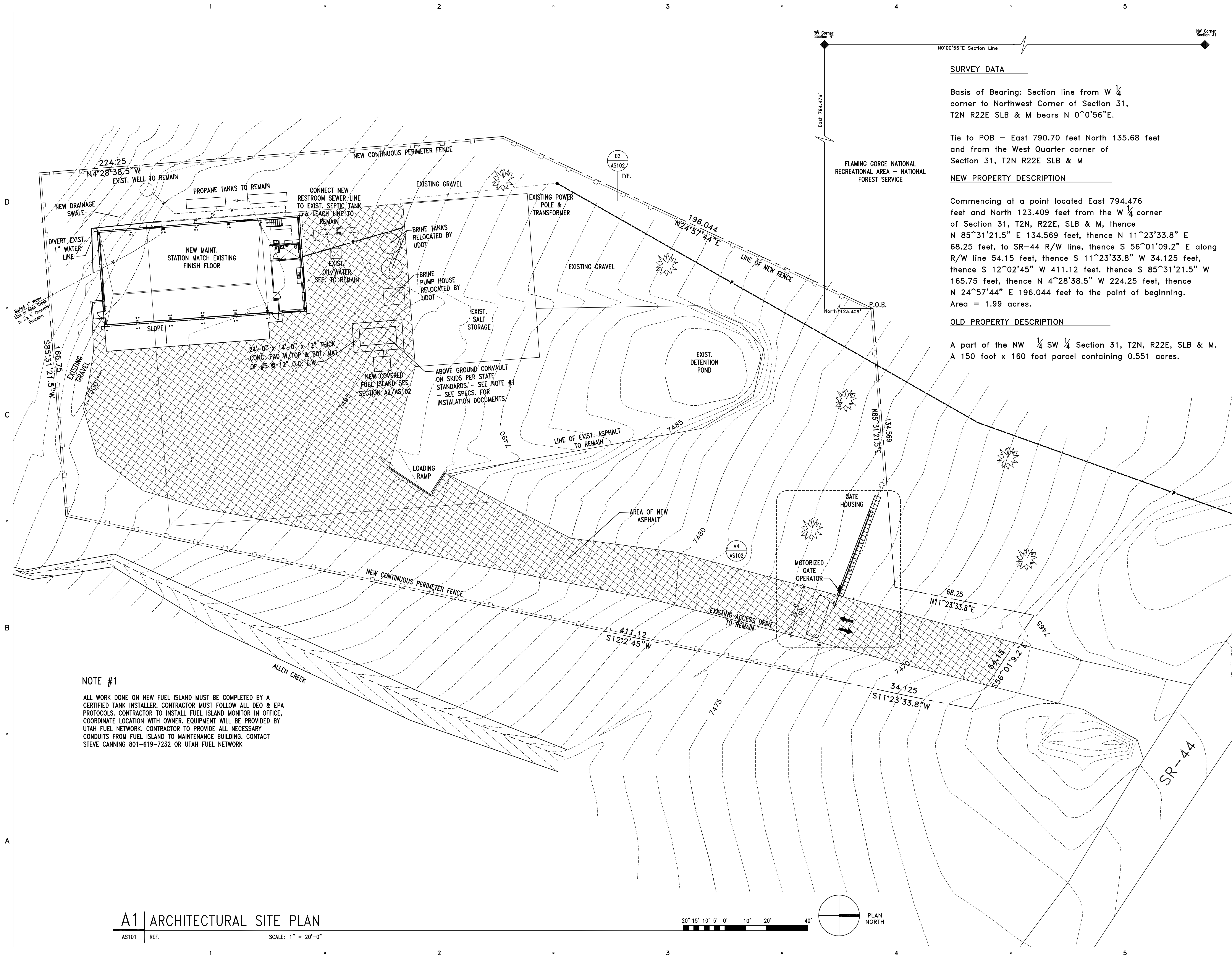
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ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	1" = 20'-0"
DATE:	MAY 1, 2007


SHEET TITLE

DEMOLITION
SITE PLAN

AD101




CLIENT



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SR-44 @ M.P. 0.5 ±
GREENDALE UTAH

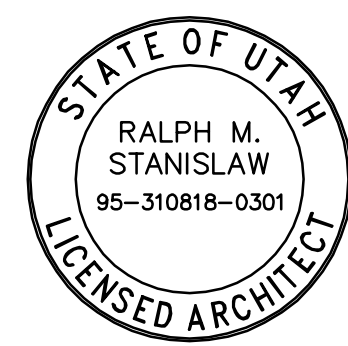
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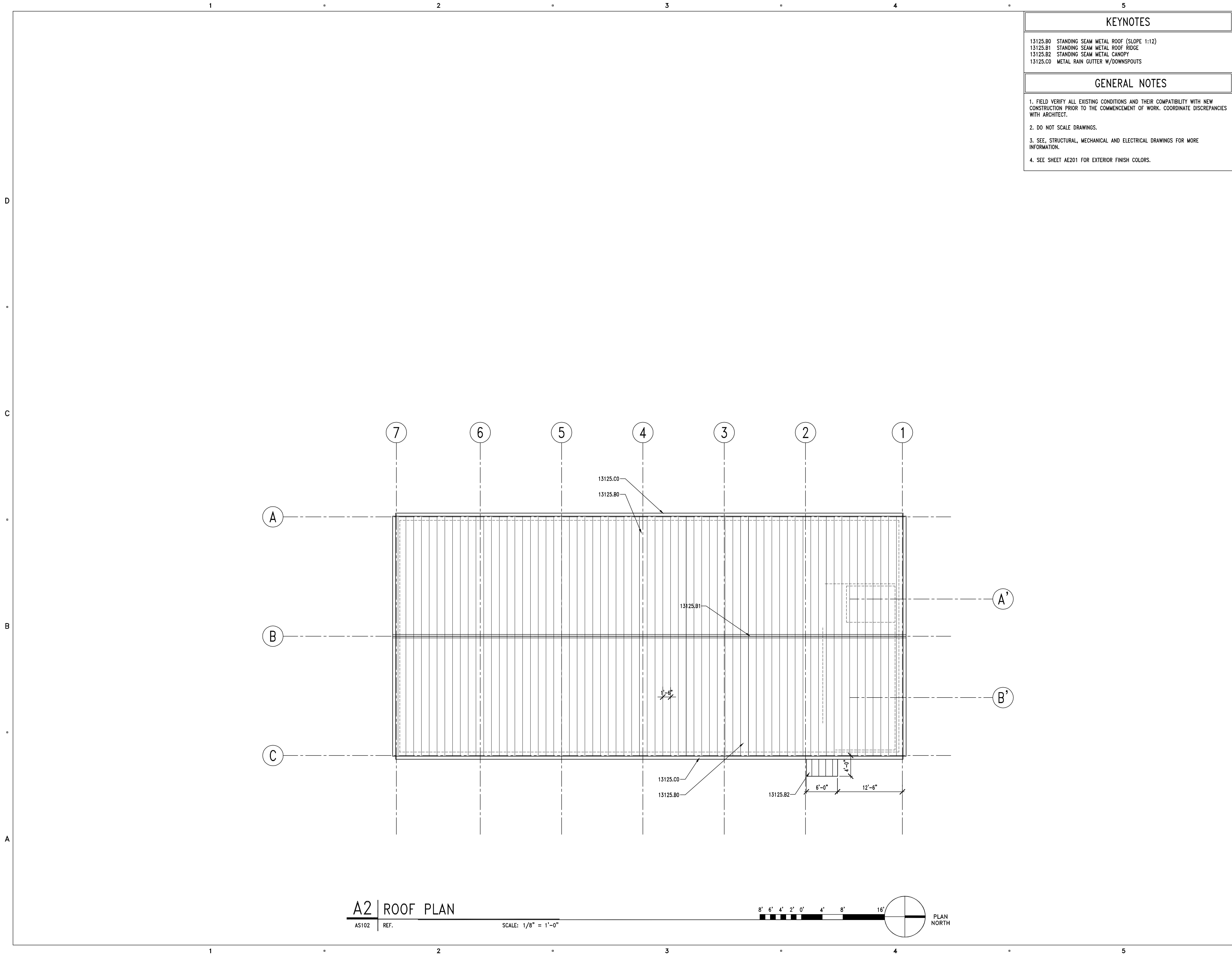
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SHEET TITLE

ARCHITECTURAL
SITE PLAN

AS101

AE121



KEYNOTES

13125.B0 STANDING SEAM METAL ROOF (SLOPE 1:12)
13125.B1 STANDING SEAM METAL ROOF RIDGE
13125.B2 STANDING SEAM METAL CANOPY
13125.C0 METAL RAIN GUTTER W/DOWNSPOUTS

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
2. DO NOT SCALE DRAWINGS.
3. SEE, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
4. SEE SHEET AE201 FOR EXTERIOR FINISH COLORS.

CLIENT



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GREENDALE UTAH

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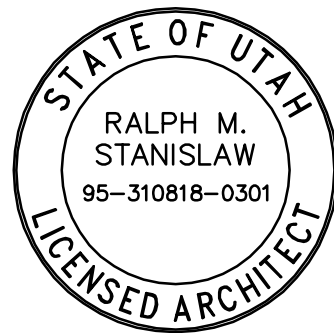


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SHEET TITLE

ROOF PLAN

AE141

EXTERIOR ELEVATION KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.C1	FOOTING - SEE STRUCTURAL
03300.D0	CONCRETE PAD
03300.H0	FOUNDATION WALL - SEE STRUCTURAL
03300.S1	SPLASH BLOCK

05500.J1 PIPE BOLLARD (DIAMETER) GALV. AND PAINTED

06105.R3 PROTECTION BOARD (THICKNESS)

07901.A0 CONT. SEALANT

08111.B0	HOLLOW METAL DOOR
08360.A0	OVERHEAD SECTIONAL DOOR
08520.B0	FIXED ALUM. WINDOW
08520.C0	ALUM. WINDOW WITH SLIDING GLASS PANEL
08521.C0	VINYL WINDOW WITH SLIDING GLASS PANEL

10425.C1 ACCESSIBLE SIGNAGE - SEE DETAIL D3/AE502

3125.20	STANDING SEAM METAL ROOF
3125.B2	STANDING SEAM METAL CANOPY
3125.C1	METAL RAIN GUTTER
3125.C2	DOWNSPOUT
3125.D1	METAL DRIP FLASHING
3125.E2	PANEL TRIM
3125.E3	RAKE TRIM
3125.E6	WALL CLOSURE
3125.F0	METAL WALL PANEL
3125.F1	METAL WALL FASTENER
3125.F2	BLIND RIVET
3125.G0	METAL FACIA
3125.H1	METAL ANGLE
3125.L4	STEEL COLUMN - PRIMED AND PAINTED
3125.N1	ANCHOR
3125.R0	INSULATION & VAPOR BARRIER (R-VALUE)

15050.A1 MECH. PENETRATIONS
15490.C0 WASTE OIL PIT
15887.A1 LOUVER W/ BIRD SCREEN

16520.B1 EXTERIOR WALL MOUNTED LIGHTS
16520.B2 EXTERIOR WALL MOUNTED FLOOD LIGHTS

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT. 16520.B2

2. DO NOT SCALE DRAWINGS.

3. SEE SHEET AE602 FOR WINDOW TYPES AND DETAILS.

4. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

5. EXTERIOR ELEVATION KEYNOTES ARE FOR ALL EXTERIOR ELEVATIONS, THEREFOR NOT ALL KEYNOTES MAY BE USED ON EACH SHEET.

6. EXTERIOR LIGHTS MUST BE SUPPORTED BY SUITABLE STRUCTURAL BRACING TO BE PROVIDED BY THE METAL BUILDING MANUFACTURER.

EXTERIOR COLOR SCHEDULE

(13125.B0) METAL ROOF, FASCIA, GUTTERS & RAKE TRIM: KYNAR 500 EMERALD GREEN" OR EQUAL

(13125.F0) METAL WALL PANEL: KYNAR 500 "SAHARA" OR EQUAL

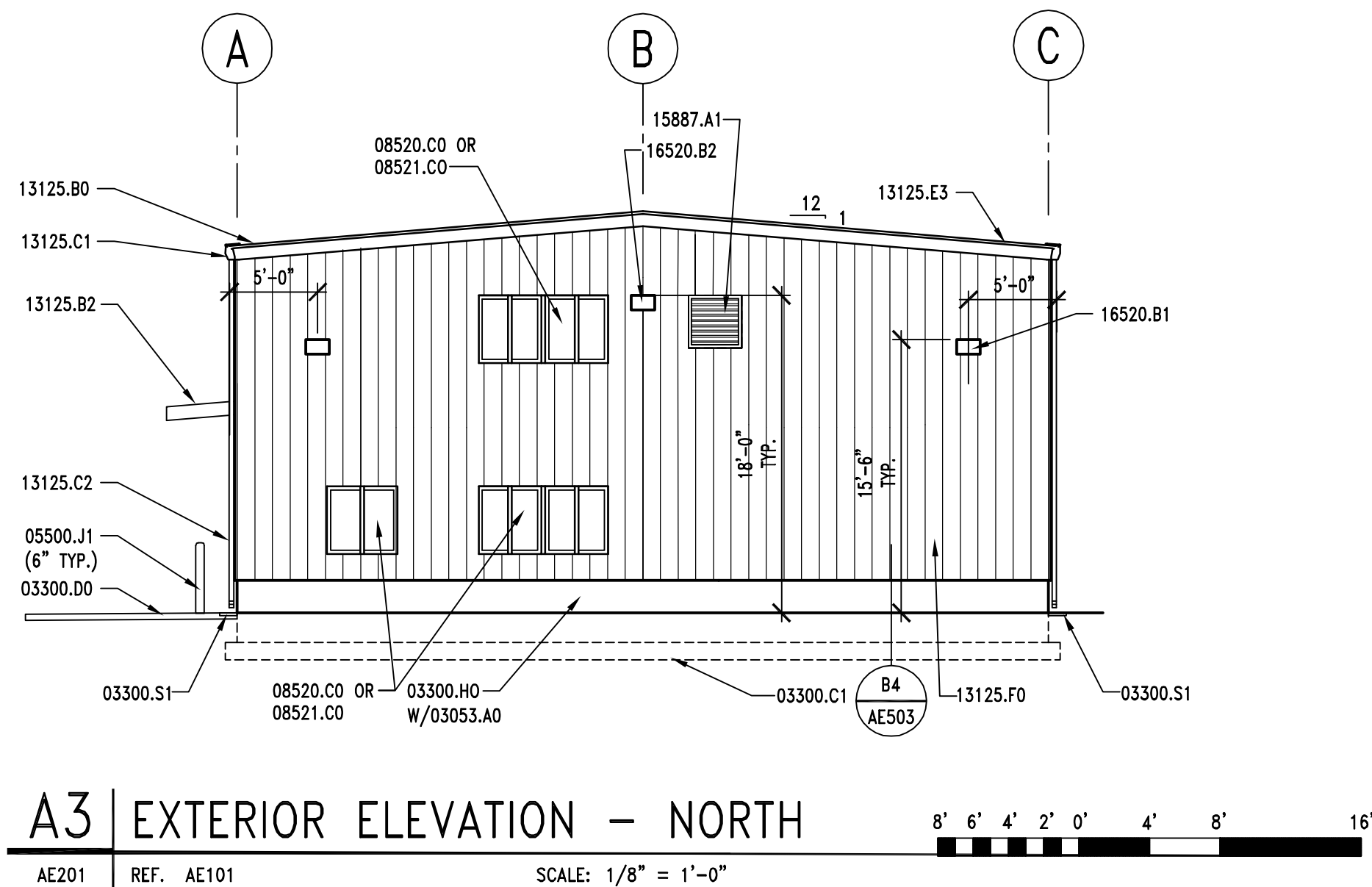
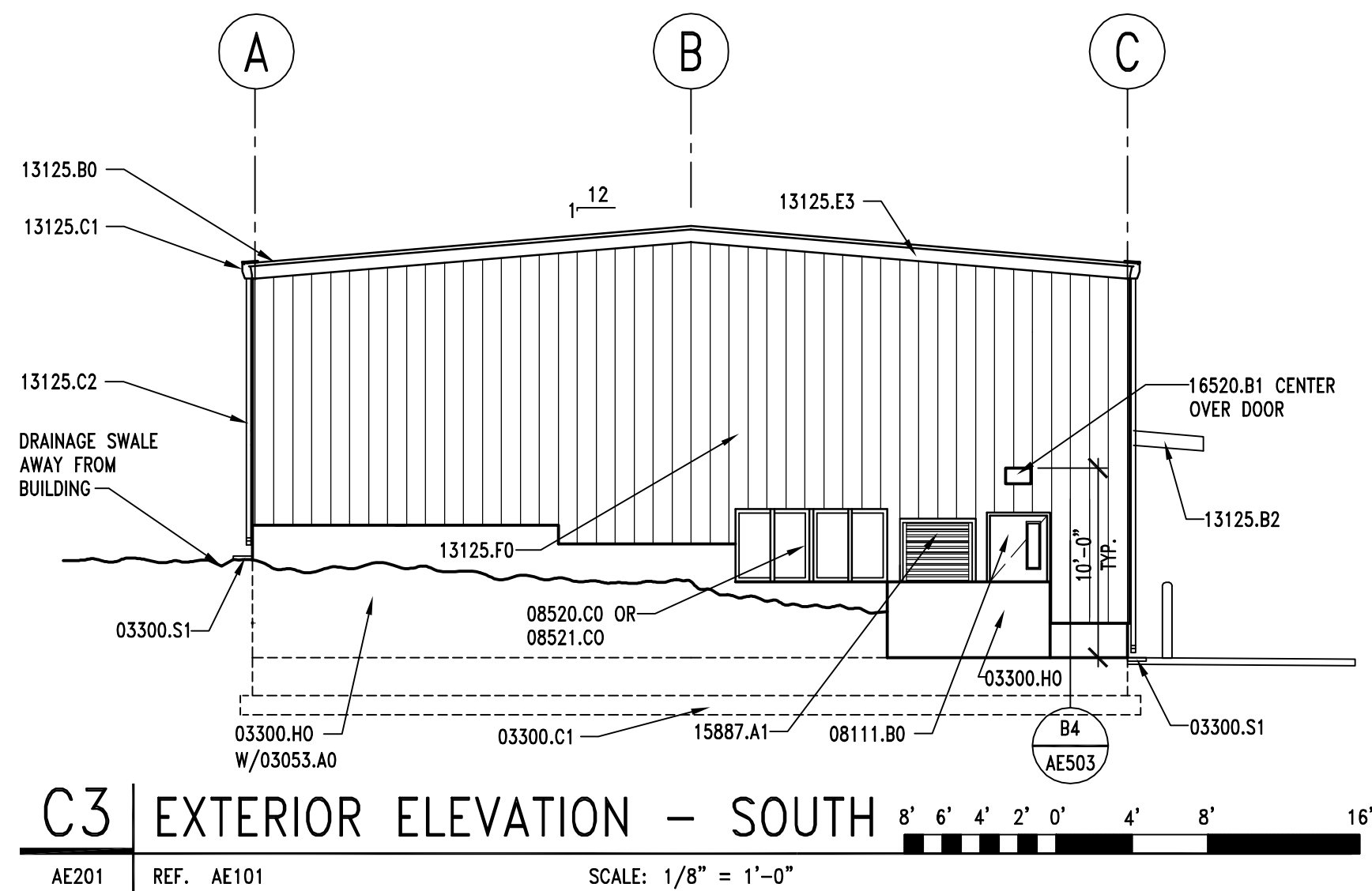
(13125.C2) DOWN SPOUTS: PRE FINISHED TO MATCH METAL WALL PANEL @ GRID 3.

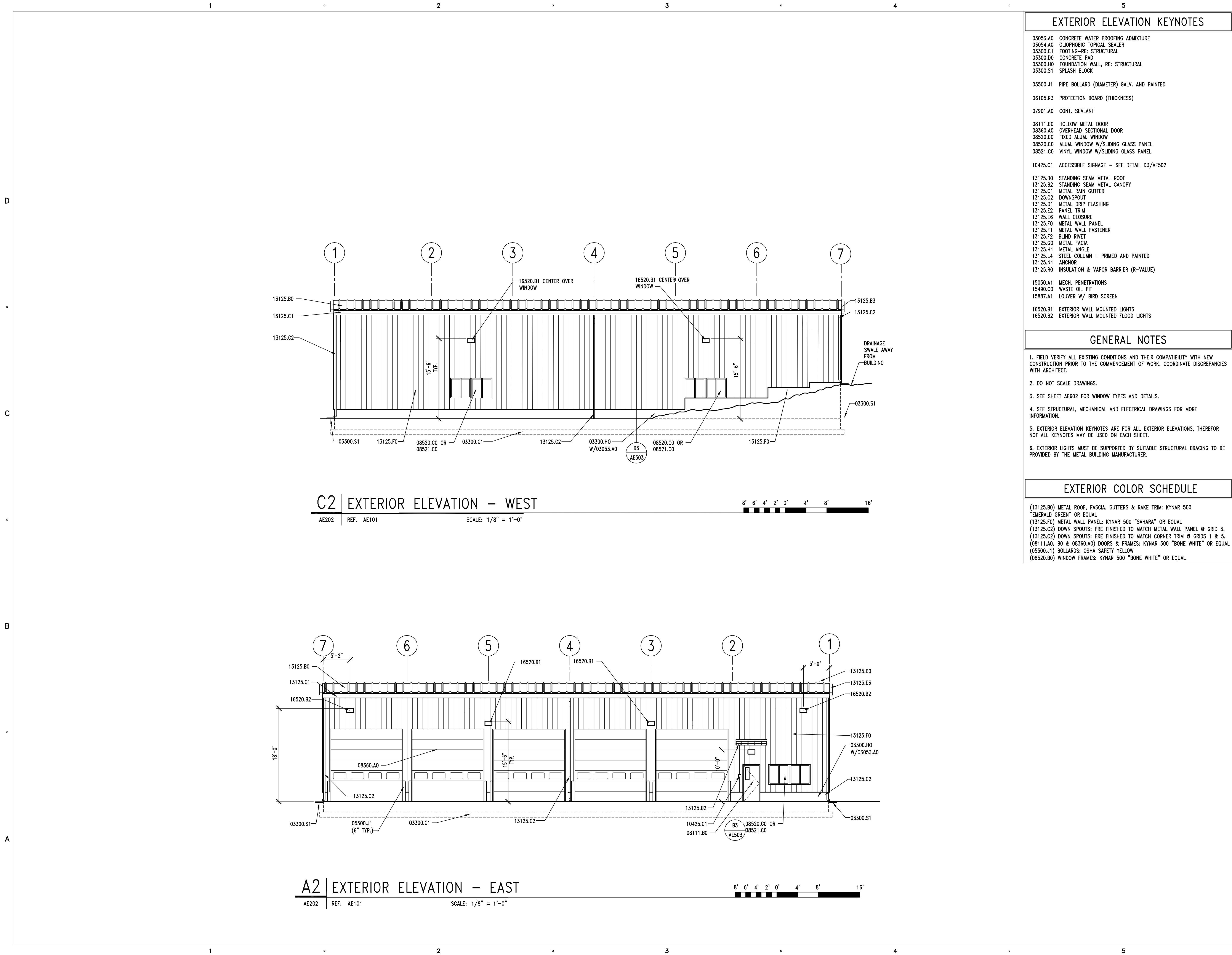
(13125.C2) DOWN SPOUTS: PRE FINISHED TO MATCH CORNER TRIM @ GRIDS 1 & 5.

(08111.A0, B0 & 08360.A0) DOORS & FRAMES: KYNAR 500 "BONE WHITE" OR EQUAL

(05500.J1) BOLLARDS: OSHA SAFETY YELLOW

(08520.B0) WINDOW FRAMES: KYNAR 500 "BONE WHITE" OR EQUAL





EXTERIOR ELEVATION KEYNOTES

- 03053.A0 CONCRETE WATER PROOFING ADMIXTURE
03054.A0 OLIOPHOBIC TOPICAL SEALER
03300.C1 FOOTING-RE; STRUCTURAL
03300.D0 CONCRETE PAD
03300.H0 FOUNDATION WALL, RE: STRUCTURAL
03300.S1 SPLASH BLOCK
- 05500.J1 PIPE BOLLARD (DIAMETER) GALV. AND PAINTED
- 06105.R3 PROTECTION BOARD (THICKNESS)
- 07901.A0 CONT. SEALANT
- 08111.B0 HOLLOW METAL DOOR
08360.A0 OVERHEAD SECTIONAL DOOR
08520.B0 FIXED ALUM. WINDOW
08520.C0 ALUM. WINDOW W/SLIDING GLASS PANEL
08521.C0 VINYL WINDOW W/SLIDING GLASS PANEL
- 10425.C1 ACCESSIBLE SIGNAGE – SEE DETAIL 03/AE502
- 13125.B0 STANDING SEAM METAL ROOF
13125.B2 STANDING SEAM METAL CANOPY
13125.C1 METAL RAIN GUTTER
13125.C2 DOWNSPOUT
13125.D1 METAL DRIP FLASHING
13125.E2 PANEL TRIM
13125.E6 WALL CLOSURE
13125.F0 METAL WALL PANEL
13125.F1 METAL WALL FASTENER
13125.F2 BLIND RIVET
13125.G0 METAL FACIA
13125.H1 METAL ANGLE
13125.L4 STEEL COLUMN – PRIMED AND PAINTED
13125.N1 ANCHOR
13125.R0 INSULATION & VAPOR BARRIER (R-VALUE)
- 15050.A1 MECH. PENETRATIONS
15490.C0 WASTE OIL PIT
15887.A1 LOUVER W/ BIRD SCREEN
- 16520.B1 EXTERIOR WALL MOUNTED LIGHTS
16520.B2 EXTERIOR WALL MOUNTED FLOOD LIGHTS

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
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3. SEE SHEET AE602 FOR WINDOW TYPES AND DETAILS.
4. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
5. EXTERIOR ELEVATION KEYNOTES ARE FOR ALL EXTERIOR ELEVATIONS, THEREFOR NOT ALL KEYNOTES MAY BE USED ON EACH SHEET.
6. EXTERIOR LIGHTS MUST BE SUPPORTED BY SUITABLE STRUCTURAL BRACING TO BE PROVIDED BY THE METAL BUILDING MANUFACTURER.

EXTERIOR COLOR SCHEDULE

- (13125.B0) METAL ROOF, FASCIA, GUTTERS & RAKE TRIM: KYNAR 500 "EMERALD GREEN" OR EQUAL
(13125.F0) METAL WALL PANEL: KYNAR 500 "SAHARA" OR EQUAL
(13125.C2) DOWN SPOUTS: PRE FINISHED TO MATCH METAL WALL PANEL @ GRID 3.
(13125.C2) DOWN SPOUTS: PRE FINISHED TO MATCH CORNER TRIM @ GRIDS 1 & 5.
(08111.A0, B0 & 08360.A0) DOORS & FRAMES: KYNAR 500 "BONE WHITE" OR EQUAL
(05500.J1) BOLLARDS: OSHA SAFETY YELLOW
(08520.B0) WINDOW FRAMES: KYNAR 500 "BONE WHITE" OR EQUAL

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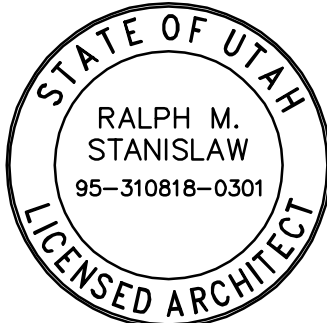


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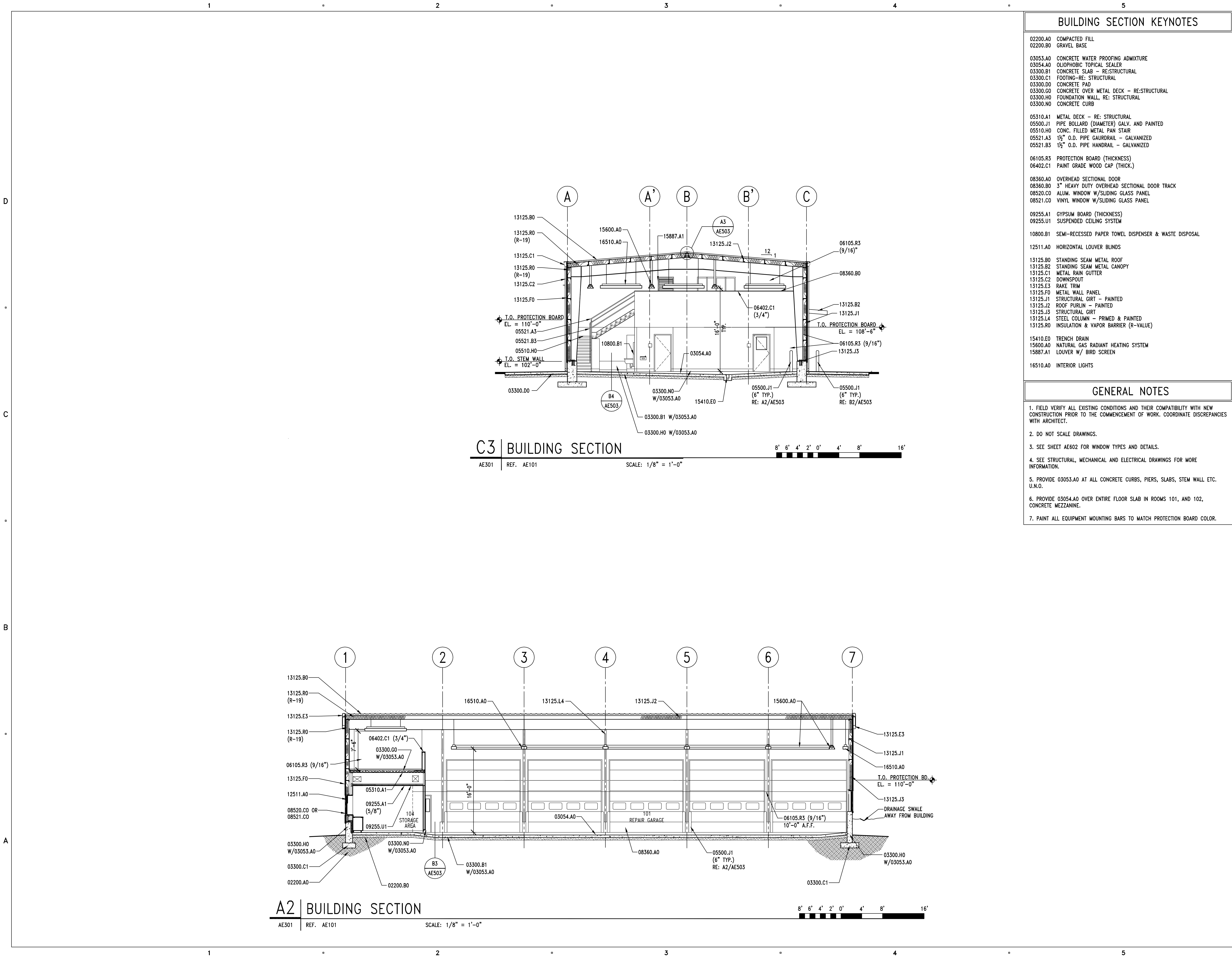
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ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	1/8"=1'-0"
DATE:	MAY 1, 2007

SHEET TITLE

EXTERIOR
ELEVATIONS

AE202



BUILDING SECTION KEYNOTES

02200.A0 COMPACTED FILL
02200.B0 GRAVEL BASE
03053.A0 CONCRETE WATER PROOFING ADMIXTURE
03054.A0 OLIOPHOBIC TOPICAL SEALER
03300.B1 CONCRETE SLAB - RE:STRUCTURAL
03300.C1 FOOTING-RE: STRUCTURAL
03300.D0 CONCRETE PAD
03300.G0 CONCRETE OVER METAL DECK - RE:STRUCTURAL
03300.H0 FOUNDATION WALL, RE: STRUCTURAL
03300.N0 CONCRETE CURB

05310.A1 METAL DECK - RE: STRUCTURAL
05500.J1 PIPE BOLLARD (DIAMETER) GALV. AND PAINTED
05510.H0 CONC. FILLED METAL PAN STAIR
05521.A3 1½" O.D. PIPE GAURDRAIL - GALVANIZED
05521.B3 1½" O.D. PIPE HANDRAIL - GALVANIZED

06105.R3 PROTECTION BOARD (THICKNESS)
06402.C1 PAINT GRADE WOOD CAP (THICK.)

08360.A0 OVERHEAD SECTIONAL DOOR
08360.B0 3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK
08520.C0 ALUM. WINDOW W/SLIDING GLASS PANEL
08521.C0 VINYL WINDOW W/SLIDING GLASS PANEL

09255.A1 GYPSUM BOARD (THICKNESS)
09255.U1 SUSPENDED CEILING SYSTEM

10800.B1 SEMI-RECESSED PAPER TOWEL DISPENSER & WASTE DISPOSAL

12511.A0 HORIZONTAL LOUVER BLINDS

13125.B0 STANDING SEAM METAL ROOF
13125.B2 STANDING SEAM METAL CANOPY
13125.C1 METAL RAIN GUTTER
13125.C2 DOWNSPOUT
13125.E3 RAKE TRIM
13125.F0 METAL WALL PANEL
13125.J1 STRUCTURAL GIRT - PAINTED
13125.J2 ROOF PURLIN - PAINTED
13125.J3 STRUCTURAL GIRT
13125.L4 STEEL COLUMN - PRIMED & PAINTED
13125.R0 INSULATION & VAPOR BARRIER (R-VALUE)

15410.E0 TRENCH DRAIN
15600.A0 NATURAL GAS RADIANT HEATING SYSTEM
15887.A1 LOUVER W/ BIRD SCREEN

16510.A0 INTERIOR LIGHTS

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
2. DO NOT SCALE DRAWINGS.
3. SEE SHEET AE602 FOR WINDOW TYPES AND DETAILS.
4. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
5. PROVIDE 03053.A0 AT ALL CONCRETE CURBS, PIERS, SLABS, STEM WALL ETC. U.N.O.
6. PROVIDE 03054.A0 OVER ENTIRE FLOOR SLAB IN ROOMS 101, AND 102, CONCRETE MEZZANINE.
7. PAINT ALL EQUIPMENT MOUNTING BARS TO MATCH PROTECTION BOARD COLOR.

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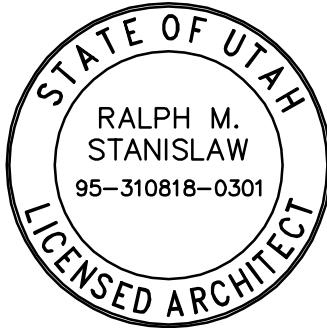


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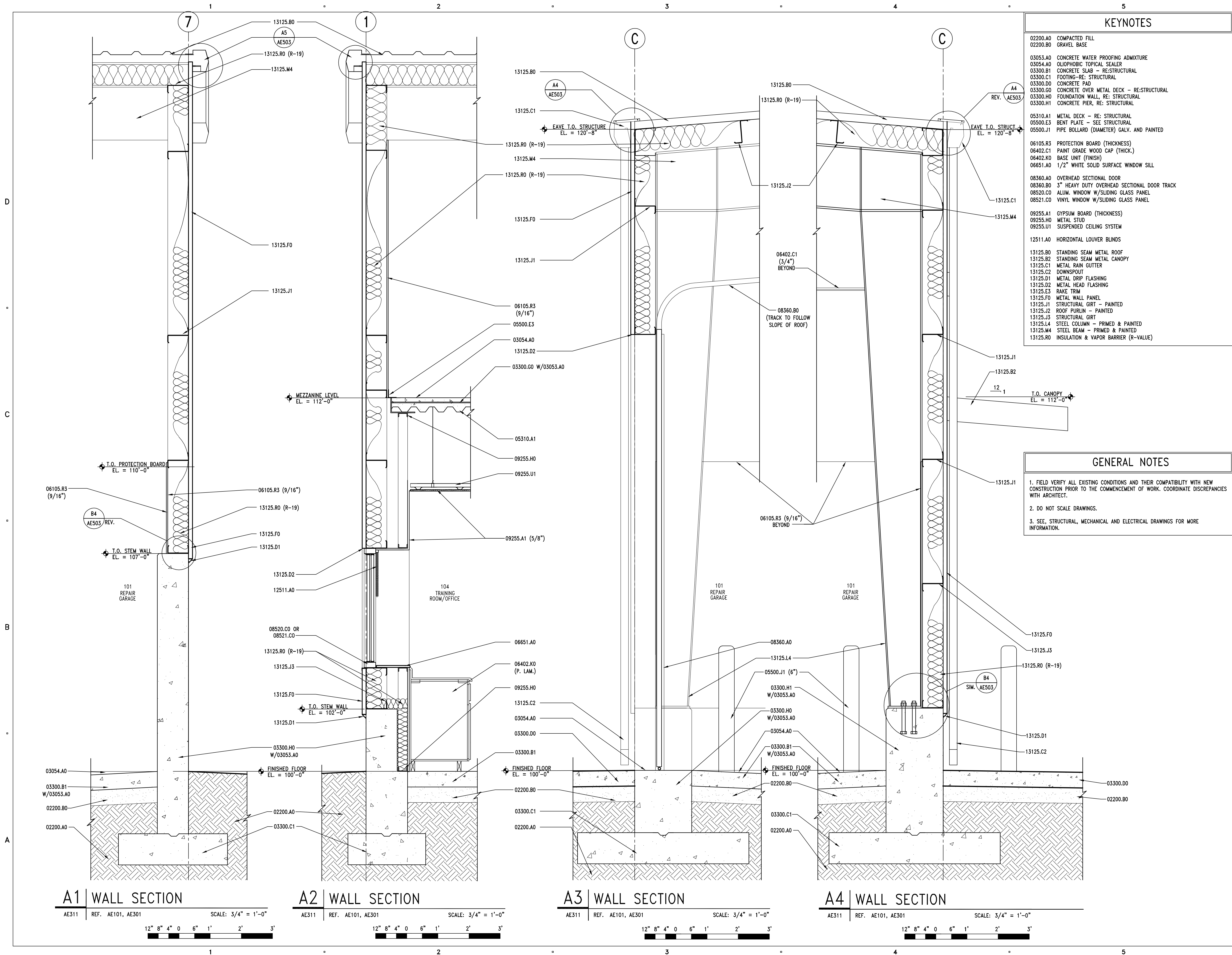
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SHEET TITLE

BUILDING
SECTIONS

AE301



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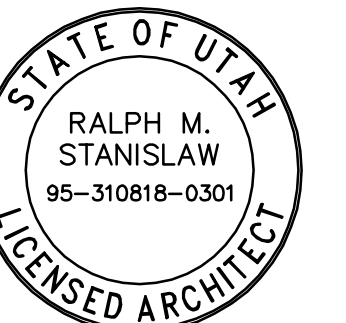
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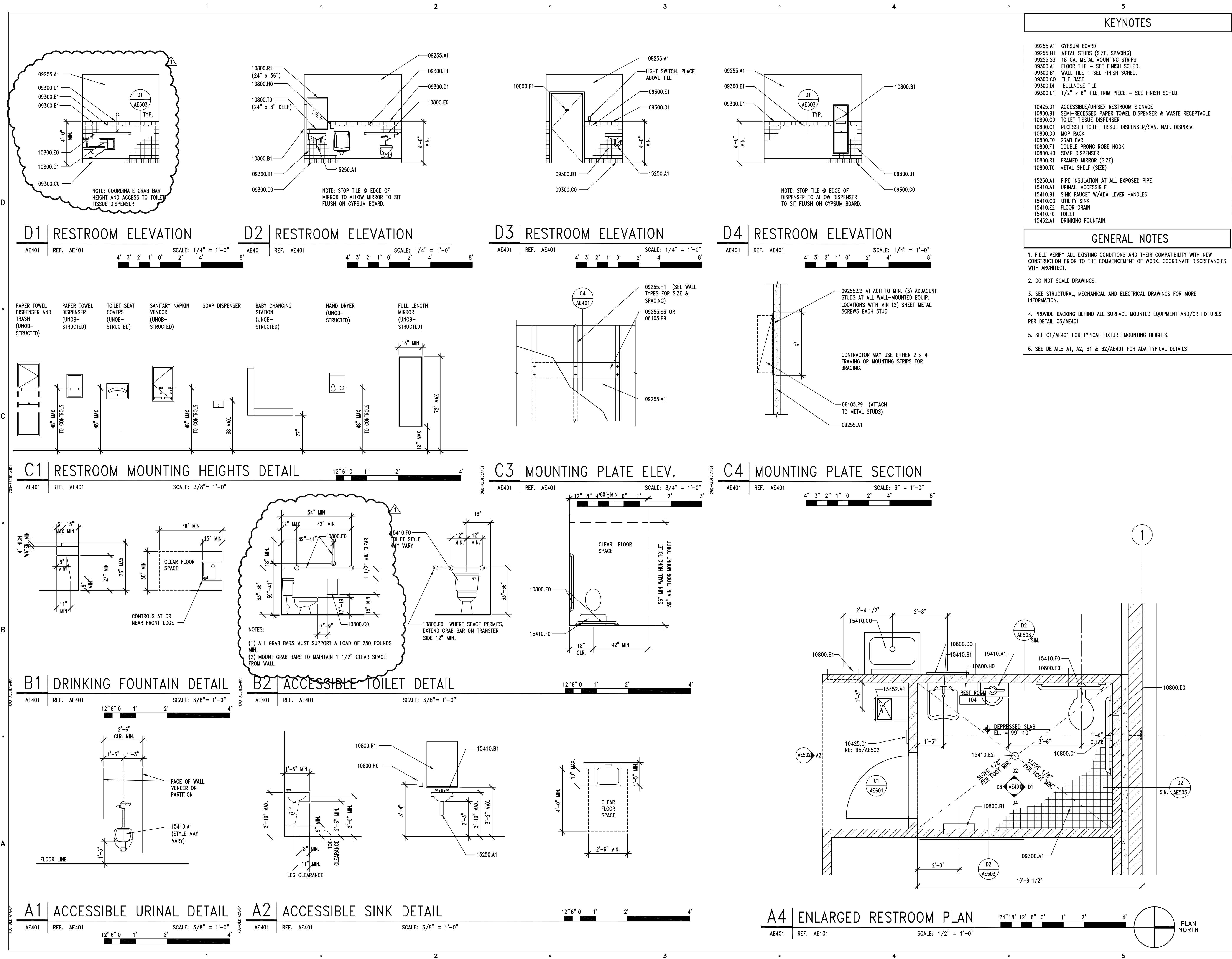
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ARCHIPLEX PROJECT NO:	0708.01
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SHEET TITLE

WALL SECTIONS

AE311



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DESIGNER

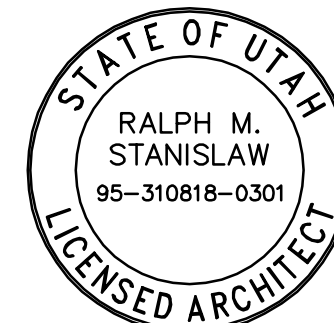


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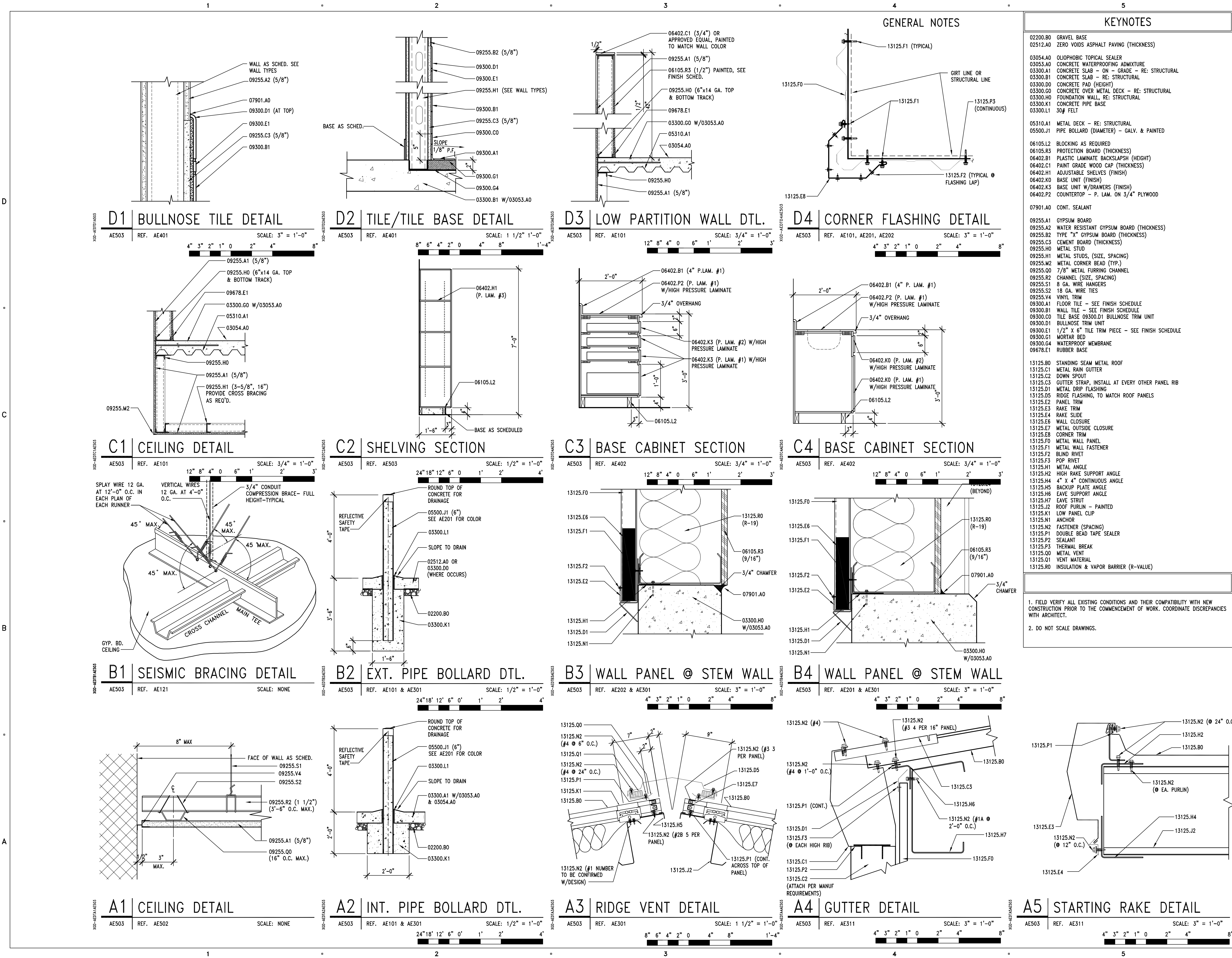
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SHEET TITLE

ENLARGED RESTROOM
FLOOR PLAN,
INTERIOR ELEVATION
AND DETAILS

AE401



CLIENT



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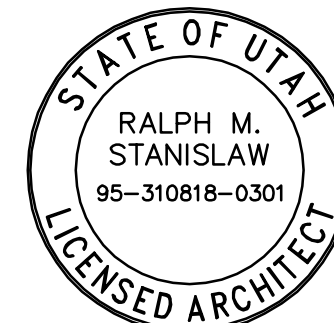


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ARCHIPLEX PROJECT NO: 0708.01

DRAWN BY: A. PHILLIPS

CHECKED BY: R. STANISLAW

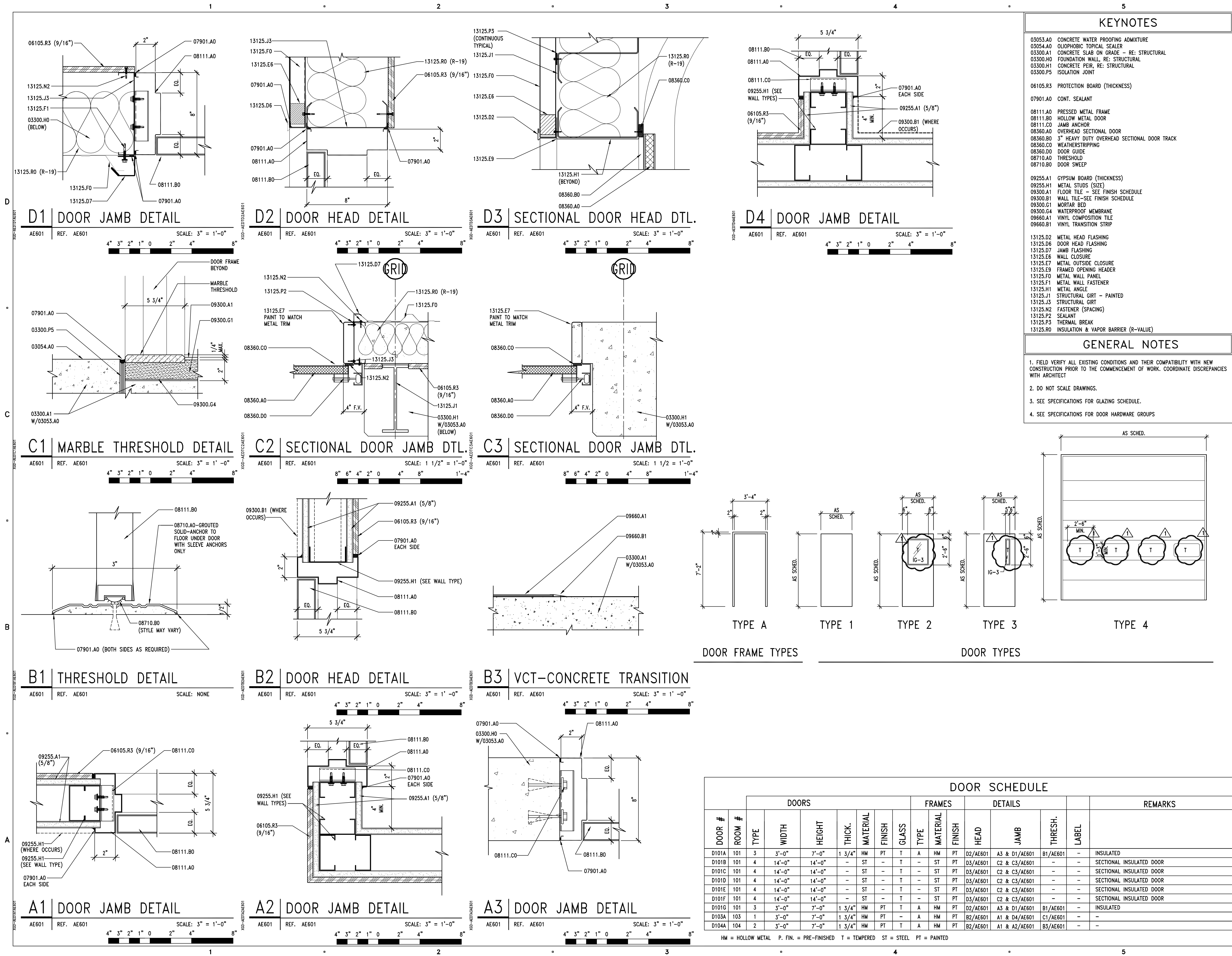
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SHEET TITLE

MISC. DETAILS

AE503



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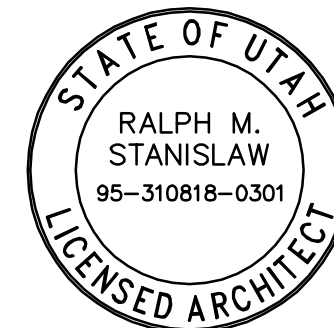


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ARCHIPLEX PROJECT NO: 0708.01

DRAWN BY: A. PHILLIPS

CHECKED BY: R. STANISLAW

SCALE: AS SHOWN

DATE: MAY 1, 2007

SHEET TITLE

DOOR SCHEDULE
DOOR TYPES,
AND DETAILS

AE601

GENERAL STRUCTURAL NOTES

GENERAL

1. The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.
2. Typical details and sections shall apply where specific details are not shown.
3. The contractor shall verify all site conditions and dimensions. If actual conditions differ from those shown in the contract drawings, the contractor shall immediately notify the architect/engineer before proceeding with the fabrication or construction of any affected elements.
4. Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.
5. The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.
6. The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.
7. The contractor shall provide adequate shoring and bracing as required for his method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting and shall be braced until the floor/roof system is completed.
8. Site observations by BHB Consulting Engineers, P.C.'s field representative shall not be construed as approval of construction procedures nor special inspection.
9. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. Some dimensions and elements such as elevations, depressions, slopes, mechanical housekeeping pads, etc. are not shown in the structural drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural, mechanical and electrical drawings.
10. Review of shop drawing submittals by BHB Consulting Engineers, P.C. is for general compliance only and is not intended for approval. The shop drawings review shall not relieve the contractor from the responsibility of completing the project according to the contract documents.
11. Shop drawings made from reproductions of the contract drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed.
12. Only an authorized representative of BHB Consulting Engineers, P.C. may make changes to these contract drawings. BHB Consulting Engineers, P.C. shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized representative of BHB Consulting Engineers, P.C.

BASIS OF DESIGN

1. Governing Building Code International Building Code 2006
2. Roof Snow Load
- a. Ground Snow Load $P_g=78$ psf
- b. Snow Importance Factor $I_s=1.0$
- c. Snow Exposure Coefficient $C_e=1.0$
- d. Thermal Exposure Coefficient $C_t=1.0$
- e. Roof Snow Load $P_f=0.7"C_e"C_t"P_g=55$ psf plus Snow Drift
3. Mezzanine Floor Loads
- a. Dead 54 psf
- b. Live 125 psf
4. Seismic Loads
- a. Short Period Mapped Spectral Acceleration $S_S=0.333$
- b. Soil Site Class D
- c. Short Period Site Coefficient $F_a=1.0$
- d. 5% Damped Design Spectral Response Acceleration $S_D=2.0"F_a"F_s"S_S$
- e. Seismic Importance Factor $I_p=1.00$
- f. Response Modification Coefficient $R=5.0$
- g. Seismic Response Coefficient $C_u=S_D*S_e*I_p/R$
- h. W Dead Loads of Structure D
- i. Building Seismic Design Category 30
- j. System Overstrength Factor 3.0
- k. Deflection Amplification Factor 3.0
- l. Base Shear $V=C_S**W=0.044$ W (Strength Design)
5. Wind Loads
- a. Wind Velocity (3 Second Gust) 90 mph
- b. Exposure Type C
- c. Wind Importance Factor 1.00

FOUNDATION

1. Soils Investigation Report: None
2. Soil bearing pressure: 1500 psf. Assumed by Owner.
3. Frost Protection: 48 inches minimum
4. Clear excavations of debris and loose soil prior to placing footings. All footings shall bear on undisturbed natural sub-grade or engineered compacted fill as noted in the soils report.

EARTHWORK

1. Clearing: The building area shall be stripped of all vegetation, topsoil and debris. Following stripping, all fill soils and any remaining loose natural soils shall be excavated to expose competent natural soils.
2. Proof roll and/or compact the entire building pad area with normal compaction equipment, in the presence of a qualified soils engineer to achieve, or verify the existence of, zero deflection and zero flexure.
3. Compacted structural fill: All fill material shall be a well-graded granular material with a maximum size less than 3 inches and with not more than 15 percent passing a No. 200 sieve. It shall be compacted to at least 95 percent of the maximum laboratory density as determined by ASTM D 1557 for fill beneath footings and floor slabs. All fill shall be tested. Compacted structural fill shall be placed in lifts not exceeding 8 inches in uncompacted thickness.
4. Floor slabs thicknesses shall be required by the plans and underlain by a granular layer at least 4 inches thick. The granular layer shall have a maximum size less than 1 inch with not more than 5 percent passing a #200 sieve and shall be compacted to at least 90 percent of the maximum laboratory density as determined by ASTM D 1557.
5. Consult the project specifications and soils report for further earthwork requirements.

CONCRETE

1. Materials, unless noted otherwise:
- a. Normal weight aggregates ASTM C 33
- b. Reinforcing Steel ASTM 615 Grade 60 (Fy = 60 ksi)
- c. Deformed Bar Anchors (DBA) ASTM A498
- d. Admixtures:
- i. Air-entraining admixtures comply with ASTM C 260 (when used).
- ii. Calcium chloride shall not be added to the concrete mix.
- e. Type I cement complying with ASTM C-150 shall be used for all concrete.
- f. The water/cement ratios shall meet the requirements of ACI 318.
- g. Provide air entraining as recommended by ACI 318.
- h. No aluminum content or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.
2. Compressive strengths of concrete at 28 days shall be as follows:
- a. Footings 3,000 psi
- b. Interior Slabs on Grade 4,000 psi
- c. Walls 4,000 psi
- d. Normal Weight concrete over Steel Deck 3,500 psi
- e. All Site Concrete 4,000 psi
3. 5 1/2" thick (total thickness) normal weight concrete slab shall be poured over the steel deck Reinforce slab with 6" x 6" - W2/16-2 welded wire fabric minimum, unless noted otherwise. Welded Wire Fabric shall be placed 1" to 1 1/2" below the top of the slab.
- a. At contractor's option, the welded wire fabric may be substituted with 100% virgin polypropylene synthetic fiber containing no processed olefin materials and specifically manufactured to an optimum gradation for use as concrete secondary reinforcement.
4. Only one grade or type of concrete shall be poured on the site at any given time.
5. The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.
- a. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.
- b. Suspended slabs shall be re-supported after form removal until concrete reaches its 28-day specified compressive strength.
6. Reinforcement shall have the following concrete cover:
- Cast-in-place Concrete Clear Cover
- a. Cast against and permanently exposed to earth 3"
- b. Formed concrete exposed to earth or weather:
- #5 thru #8 bars 2"
- #5 and smaller bars 1-1/2"
- c. Concrete not exposed to weather or in contact with ground:
- Slabs, Walls, Joists #11 bars and smaller 3/4"
- Beams, Columns, Primary Reinf., Ties, Stirrups, Spirals 1-1/2"
7. Construction Joints and Control Joints:
- a. Provide a formed and beveled 2 x 4 continuous keyway in all horizontal and vertical construction joints including between top of footing and foundation walls, unless noted otherwise. In addition, all joints shall be intentionally roughened to a full amplitude of approximately 1/4 inch.
- b. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1:25:1. Control joints shall be completed within 12 hours of concrete placement. Control joints may be installed by:
- i. Saw cut a depth of 1/4 the thickness of the slab
- ii. Tied joints a depth of 1/4 the thickness of the slab
- c. Install construction or control joints in slabs on grade at a spacing not to exceed 75 times the slab thickness in any direction for reinforced slabs, unless noted otherwise. Construction joints shall not exceed a distance of 125'-0" o.c. in any direction.
- d. In exposed areas, install construction or control joints in concrete over metal deck at a spacing not to exceed 10 feet o.c. Coordinate location with architectural drawings.
8. Construction:
- a. Use chairs or other support devices recommended by the CRS to support and tie reinforcement bars and WWF prior to placing concrete. WWF shall be adequately supported at 36" o.c. maximum. Reinforcing steel for slabs on grade shall be adequately supported on precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.
- b. Concrete to be mechanically consolidated during placement per ACI standards.
- c. Contractor shall coordinate placement of all openings, cuts, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
- d. All embeds and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
- e. No pipes, ducts, sleeves, etc. shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around these elements and footings stepped to avoid piping.
- f. Reinforcing Bars shall not be welded. Do not substitute reinforcing bars for DBAs or HSAs.
9. Detailing:
- a. Lap splice lengths shall be detailed to comply with the "Reinforcing Bar Lap Splice Schedule" on sheet S001. Splices may be made with mechanical splices capable of 125% tension capacity of the bar being spliced. Mechanical splices shall be the positive connecting type coupler and shall meet all Uniform Building Code requirements. Use "Coldweld", "Lamin" Standard Couplers, "Bar-Lock" or equal with internal protector. If mechanical splices are used, splices or couplers on adjacent bars shall be staggered a minimum of 24" apart along the longitudinal axis of the reinforcing bars.
- b. At joints provide reinforcing dowels to match the member reinforcing, unless noted otherwise.
- c. At all discontinuous control or construction slab on grade joints, provide 2 - #4 x 48 inches horizontal wall reinforcing.
- d. All vertical reinforcing shall be dowelled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90 degree standard hook and shall extend to within 4" of the bottom of the footing. Footing dowels (#6 bars and smaller) with hooked ends extend more than 20" into footings.
- e. Horizontal wall reinforcing shall terminate at ends of walls and openings into the far end of the jamb column with a 90 degree standard hook plus a 6 bar diameter extension. Horizontal wall reinforcing shall be continuous through construction and control joints.
- f. See detail B2/S01 for reinforcing around miscellaneous openings (6" to 36" wide). For openings wider than 36", contact the engineer. All recesses that interrupt reinforcing shall be reinforced the same as an opening.

EPOXY

1. Epoxy shall be "HIT HY 150 MAX" or "HIT RE 500" by Hilti Corporation, "Anchor-It" by Adhesive Technology Corporation, "Epocon Injection System" by Rammed-In-Place, "Power-Fast" by Rawl, or approved equal.
2. All drilled holes shall be 1/6 inch larger than the bar or anchor bolt being installed.
3. After drilling the proper size hole, clean the walls and bottom of the hole of all dust and debris using a nylon brush in conjunction with oil free compressed air. The hole shall be free of dust, debris and standing water.
4. Follow all manufacturer's recommendations for epoxy installation.

STRUCTURAL STEEL

1. Material:
- a. Other shapes & Plates ASTM A36
- b. Deformed Bar Anchors (DBA) ASTM A498
- c. Bolted Connections ASTM A325
2. Fabrication and construction shall comply with the latest edition of the following Codes and Standards:
- a. American Institute of Steel Construction (AISC), "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings" with "Commentary"
- b. AISC "Code of Standard Practice" excluding the following: Section 3.4, Section 4.4, Section 4.4.1
- c. AISC "Specification for Structural Joints Using ASTM A325 or A490 Bolts"
- d. American Welding Society (AWS), Structural Welding Code (specifications do not apply when they conflict with the AISC requirements).
- e. AISC "Seismic Provision for Structural Steel Buildings"
3. Welding:
- a. All welding and cutting shall be performed by AWS certified welders.
- b. Use E-70XX or as noted otherwise.
- c. All intersecting steel shapes which are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Where fillet weld sizes are not shown they shall be 1/8" less than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected part.
- d. Reinforcing Bars: Do not weld rebar. Do not substitute reinforcing bars for deformed bar anchors (DBAs), machine bolts, or headed stud anchors (HSAs).
- e. Do not weld anchor bolts, including "lock" welds.
- f. Headed Stud Anchors (HSAs) installed and deformed bar anchor welding shall conform to the manufacturer's specifications.
4. Bolted Connections:
- a. Use ASTM A325N bolts for steel to steel connections, as noted herein or as noted on the drawings. A325N bolts shall be used in connections for simple span framing and beam (or girder) to bearing plate connections. Tighten bolts to a snug tight condition.
- b. Use hardened washers beneath the turned end of all bolts or nuts. Use hardened beveled washers to compensate for the lack of parallelism, where the outer face of the bolted parts has a slope greater than one in twenty with respect to the plane normal to the bolt axis. At oversized holes hardened washers or plates shall conform with ASTM F-436 and shall completely cover the entire end of the member.
- c. Where a steel to steel beam connection is not shown, provide a standard AISC framed connection for one half the total uniform load capacity of the beam for the span and steel specified.
- d. Bolts, nuts and washers shall not be reused.

METAL DECKING

1. Steel deck shall comply with the latest requirements of the Steel Deck Institute.
2. All deck shall be 3-span continuous minimum. In areas where 3-span conditions are not possible, the contractor shall provide heavier gauge deck as required to provide the equivalent loading of the deck under a three span condition.
3. All deck supporting members shall be dry before welding.
4. Crimp seams before button punching or welding interlocking seams.
5. Where deck is to receive sprayed-on fire proofing, deck shall be coated, as required, with special paint that will allow the sprayed-on fire proofing to adhere to the deck.

- Steel Floor Deck
- a. Steel floor deck shall be 2" deep x 18 gauge minimum Non-Composite Formlock deck with interlocking side seams and #10 screws at 6" o.c. with the following properties:
- 18 Gauge
- Minimum S (n/A) = 0.767
- Minimum I (n/A) = 1.203
- b. Steel deck with 5 1/2" thick (overall thickness) normal weight concrete slab shall have a minimum diaphragm shear capacity of 450 lb/ft for a 1 deck span.
- c. Deck Attachment:
- i. Frame Fastening #12 STS @ 36" Pattern.
- ii. Stitch Fastening (1) #10 STS per plan.
- d. Attach interlocking seams with 3/16" Ø button punch at 18" o.c. or with 1 1/2" top seam weld at 36" o.c. or with Verco PunchLock System at 36" o.c. or with ASC DeltaGrip System at 36" o.c. Closer spacings may be used to develop minimum shear requirements.
- e. Provide 3/2-inch minimum bearing at supports.

COLD-FORMED STEEL

1. All cold-formed steel shall meet the requirements of "Specifications for the Design of Cold-Formed Steel Structural Members" by American Iron and Steel Institute (AISI).
2. Light Gauge Steel Framing:
- a. Galvanized steel must meet the minimum requirements of ASTM A446 Grade D (Fy = 50 ksi) for 12, 14 and 16 gauge and ASTM A446 Grade A (Fy = 33 ksi) for 18 gauge and lighter. Galvanized coatings shall meet the ASTM A446 specification.
- b. Follow all manufacturers' recommendations for the use of these products.
- c. Unless noted otherwise, all welded connections shall be done according to AWS standards.
- d. All interior non-bearing steel-to-steel walls that extend above the ceiling but do not attach to the bottom of the footing. Footing dowels (#6 bars and smaller) with hooked ends extend more than 20" into footings.
- e. Connect diagonal braces to the top of the steel stud walls and to the top flange of the steel beams with two #10 tek screws minimum. Where a concrete deck occurs above, use two wall reinforcing studs to connect the brace to the concrete deck.
3. Prefabricated Systems: Submit complete shop drawings and calculations of all elements for review. Shop Drawings shall bear the stamp of a Professional Engineer registered in the State of Utah.

PREFABRICATED METAL BUILDING

1. The design, fabrication and erection of all prefabricated elements and associated hardware shall comply with the latest requirements of the IBC, AISC, SDI and AISI.
2. Prior to fabrication and installation of anchor bolts, the metal building supplier shall submit complete shop drawings and calculations including reactions bearing the stamp of a Registered Design Professional licensed in the State of Utah. Complete calculations shall be submitted with the shop drawings.
3. Do not modify any structural element of the prefabricated metal building without the written consent and direction from the manufacturer. Send copies of the consent and modifications to the Architect and Engineer.
4. The design of the premanufactured structural roof system including the steel deck, joists, girders, columns, and the lateral force resisting system (including rigid frames) is the responsibility of the premanufactured metal building supplier. Refer to the prefabricated structural roof system supplier's drawings and calculations for the exact gravity roof load values and for the design of the roof and lateral systems.

SPECIAL INSPECTION AND QUALITY ASSURANCE

- Special inspection and quality assurance, as required by section 1704 of the IBC, shall be provided by an independent agency employed by the owner unless waived by the building official. The contractor shall coordinate and cooperate with the required inspections. All testing and inspection reports shall be sent within 24 hours of the test to the architect, engineer and contractor for review. Special inspection shall be required if the fabricator is registered and approved to perform such work without special inspection. Items requiring special inspection and quality assurance are:
1. Soils (IBC 1704.7)
- a. Prior to placement of the prepared fill, the special inspector shall determine that the site has been prepared in accordance with the soils report.
- b. During placement and compaction of the fill material, the special inspector shall determine that the material being used and the maximum lift thickness comply with the soils report.
- c. The special inspector shall determine that the in-place dry density of the compacted fill material complies with the soils report.
- i. Continuous Footing Backfill: At each compacted backfill layer, at least one test for each 25 linear feet or less of wall length, but no fewer than 2 tests.
- ii. Spot Footing Backfill: Minimum of one compaction test for each lift for each spot footing.
- d. See specifications for further requirements.
2. Concrete placement (IBC Section 1704.4)
- a. Continuous special inspection shall be provided.
- b. Cylinders, slump, temperature and air-entrainment shall be done for every 50 cubic yards or each day's production if less than 50 cubic yards.
- c. See specifications for further concrete testing requirements.
3. Bolts installed in concrete (IBC Section 1704.3)
- a. All bolts shall be inspected prior to and during concrete placement.
4. Embeds and inserts installed in concrete (IBC Section 1704.4)
- a. All embeds and inserts shall be inspected prior to and during concrete placement.
5. Concrete reinforcing steel placement (IBC Section 1704.4)
- a. All reinforcing shall be inspected prior to concrete placement.
6. Structural welding including steel deck (BC 1704.3)
- a. Periodic special inspection of metal floor prior to concrete placement and roof decks.
- b. Periodic special inspection of single pass fillet welds less than or equal to 5/16"
- c. Continuous special inspection of single pass fillet welds greater than 5/16" and multi-pass fillet welds.
- d. Continuous special inspection of complete and partial penetration welds.
7. High Strength bolted connections (IBC Section 1704.3.3)
- a. Periodic special inspection of bearing type connections.
- b. Continuous special inspection of slip critical connections. Special inspector shall be present to observe the pre-installation testing and calibration procedures.
8. Epoxy Anchors (IBC Section 1704.13)
- a. Special inspection shall verify all drilled holes' size and depth prior to installation of epoxy and anchor rod.

DEFERRED SUBMITTALS

For the purpose of this section, deferred submittals are defined as per section 105.3.4.2 of the IBC. Submittal documents for deferred submittal items shall be submitted to the engineer/architect for their review for general conformance with the design of the building. Deferred structural submittals for this project are:

1. Prefabricated Metal Building

LEGEND OF MARKS AND ABBREVIATIONS

AB	ANCHOR BOLT(S)	JST	JOIST
ALT	ALTERNATE	KIP	KIP(S) = 1000 POUNDS
APPROX	APPROXIMATE	KLF	KIPS PER LINEAL FOOT
ARCH	ARCHITECTURAL	KSF	KIPS PER SQUARE FOOT
BLDG	BUILDING	LES	LINEAL FEET
BLW	BELT	LLH	LONG LEG HORIZONTAL
BM	BEAM	LLV	LONG LEG VERTICAL
BOT	BOTTOM	LLX	LONG LEG HORIZONTAL
BEG	BEARING	LEV	LONG LEG VERTICAL
BTWN	BETWEEN	MAX	MAXIMUM
C	CENTER	MECH	MECHANICAL
C.C.	CENTER TO CENTER	MFR	MANUFACTURER
COL	COLUMN	MNM	MANUFACTURE
CONC	CONCRETE	MISC	MISCELLANEOUS
CONSTR	CONSTRUCTION	NIC	NOT IN CONTRACT
CTR	CENTER	NTS	NOT TO SCALE
CM-x	CONCRETE WALL	O.C.	ON CENTER
DBA	DEFORMED BAR ANCHOR	O.F.	OUTSIDE FACE
DIB	DECK BEARING ELEVATION	OPENO	OPENING
DIM	DIAMETER	OPP	OPPOSITE
DST	DETAIL	PCF	POUND S PER CUBIC FOOT
DIA	DIMETER	PL	PLATE
DN	DOWN	PLF	POUND S PER LINEAL FOOT
DWO	DOWEL	PSF	POUND S PER SQUARE FOOT
DWL	DOWEL	PSI	POUND S PER SQUARE INCH
EA	EACH	PT	POINT
E.F.	EACH FACE	REQD	REQUIRED
ELVC	ELEVATION	REINFC	REINFORCING
ELEV	ELEVATION	REQD	REQUIRED
EQUIP	EQUIPMENT	SHT	SHEET
EQ	EQUAL	SHI	SPECIAL INSPECTION
EXP	EXPANSION	SHM	SIMILAR
EXT	EXTERIOR	SO	SQUARE
FC-x	CONTINUOUS FOOTING MARK	STA6	STAGGERED
F.D.	FLOOR DRAIN	STD	STANDARD
FDN	FOUNDATION	STL	STEEL
FF	FINISHED FLOOR	STR	STRUCTURAL
FT	SQUARE FOOTING MARK	STS	SELF TAPPING SCREWS
FTS	FOOTING	T&B	TOP AND BOTTOM
FTS-x	THICKEN SLAB MARK	THDS	THREADS
GAU	GALVANIZED	T.O.	TOP OF
GEN	GENERAL	TOD	TOP OF CONCRETE
GENL	GENERAL	TOO	TOP OF DECK
GENL	GENERAL	TOT	TOP OF FOOTING
HOZ	HORIZONTAL	TOW	TOP OF WALL
HEIGHT	HEIGHT	TYP	TYPICAL
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	UND	UNLESS NOTED OTHERWISE
INT	INTERIOR	VERT	VERTICAL
INT	INTERIOR	W/	WITH
INT	INTERIOR	WWF	WELDED WIRE FABRIC
INT	INTERIOR	WWM	WELDED WIRE MESH
JT	JOINT		

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05/01/07 CONSTRUCTION DOCUMENTS

MARK DATE DESCRIPTION

DFCM PROJECT NO: 07002900

BHB PROJECT NO: 07099

DRAWN BY: CHRIS B.

CHECKED BY: GERALD M.

SCALE:

DATE: MAY 1, 2007

SHEET TITLE

GENERAL STRUCTURAL NOTES

S001

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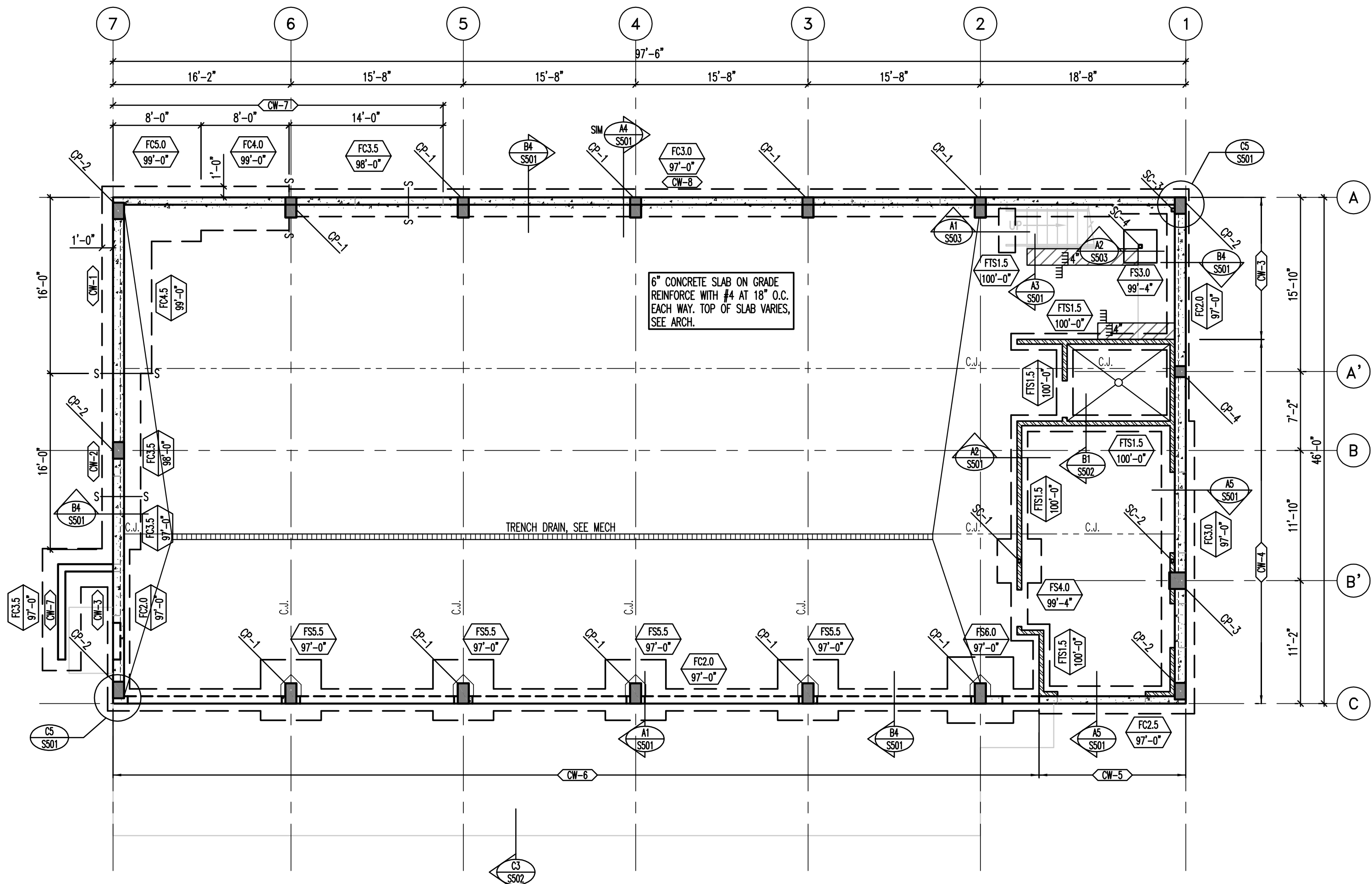
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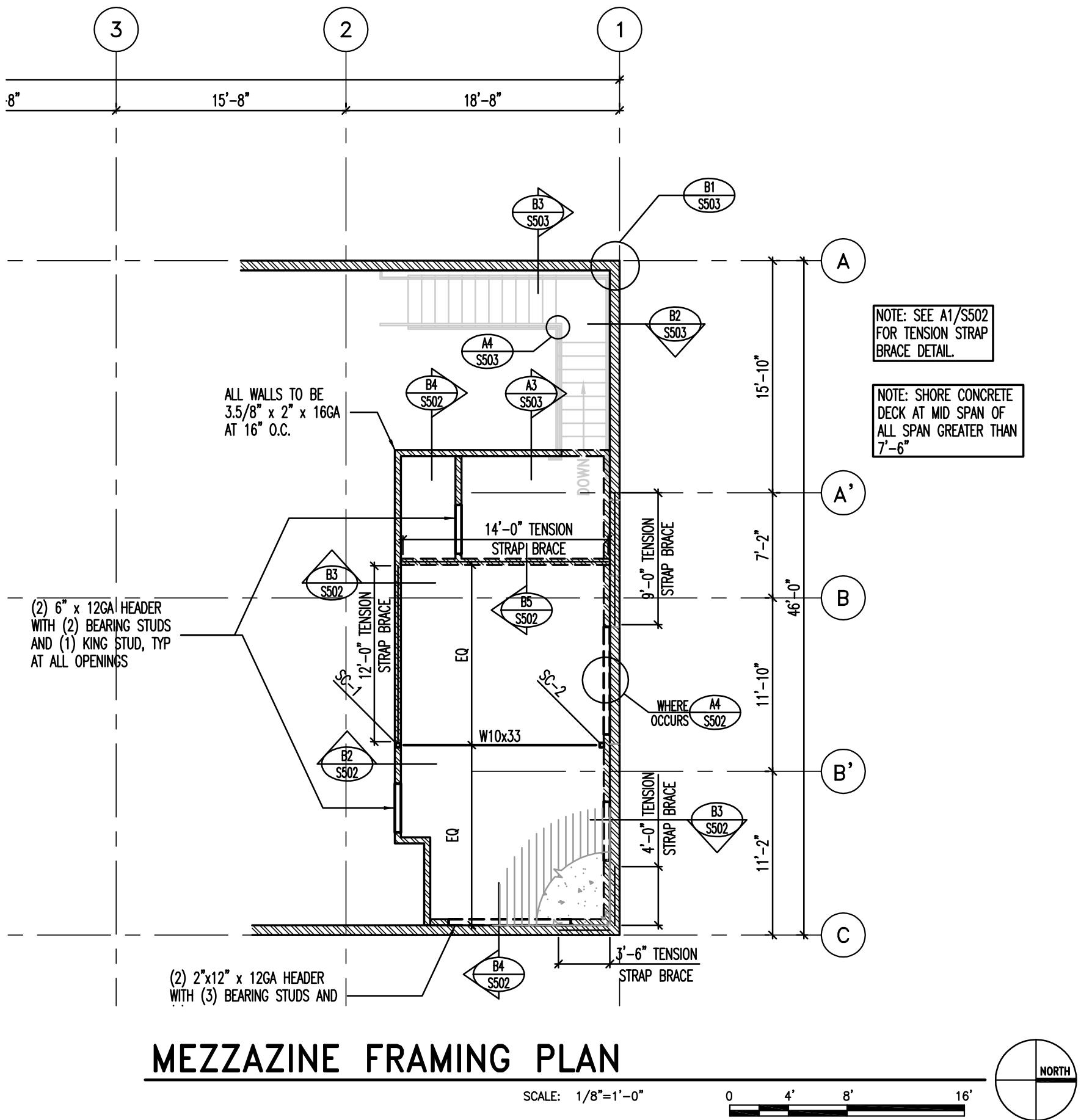
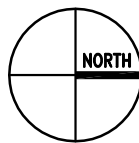
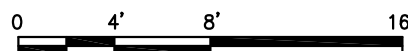
FOOTING
AND
FOUNDATION
PLAN

S101



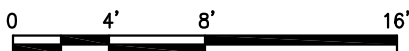
FOOTING AND FOUNDATION PLAN

SCALE: 1/8"=1'-0"



MEZZAZINE FRAMING PLAN

SCALE: 1/8"=1'-0"



MARKS AND SYMBOLS LEGEND

- SECTION MARK SHEET NUMBER
- FOOTING DESIGNATION TOP OF FOOTING ELEVATION
- INDICATES CONCRETE WALL.
- DEPRESS FOUNDATION WALL AND POUR SLAB OVER. SEE DETAIL B4/S501 AND C3/S502.
- INDICATES CONCRETE OVER METAL FLOOR DECK. SEE GENERAL STRUCTURAL NOTES ON SHEET S601.
- INDICATES 4" THICK CONCRETE HOUSE-KEEPING PAD. REINF. WITH #4 BARS AT 12" O.C. EACH WAY. SEE DETAIL A3/S501 AND A4/S501.
- INDICATES CONCRETE FOUNDATION WALL TYPE, SEE SCHEDULE ON SHEET S601.
- FCxx INDICATES CONTINUOUS FOOTING. SEE SCHEDULE ON SHEET S601.
- FSxx INDICATES SPOT FOOTING. SEE SCHEDULE ON SHEET S601.
- CP-x INDICATES CONCRETE PIER TYPE, SEE SCHEDULE ON SHEET S601.
- C.J. INDICATES CONTROL/CONSTRUCTION JOINT. SEE DETAILS C3/S501 AND C4/S501.
- SC-x INDICATES STEEL COLUMN. SEE SCHEDULE ON SHEET S-601.

FOOTING AND FOUNDATION PLAN NOTES

- COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
- ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).
- SEE DETAILS C1/S501 AND C2/S501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
- SEE DETAIL C3/S501 AND C4/S501 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE AND AT SLAB DEPRESSIONS.
- SEE DETAIL B1/S501 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
- SEE DETAIL B2/S501 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN CONCRETE WALLS.
- SEE DETAIL A3/S501 AND A4/S501 FOR ANCHORAGE OF HOUSEKEEPING PADS.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.
- FOOTING AND CONCRETE PIER SIZES SHOWN ARE AN ESTIMATE OF ACTUAL SIZES. ACTUAL SIZES WILL BE PROVIDED AFTER PREFABRICATED METAL BUILDER IS SELECTED. ALL BIDDERS SHALL PROVIDE UNIT PRICES FOR ADDING OR SUBTRACTING VOLUME OF CONCRETE, WEIGHT OF REINFORCING STEEL AND VOLUME OF EARTHWORK.
- SEE "EARTHWORK" NOTES ON SHEET S001 AND DETAIL C1/S502 FOR MINIMUM FILL REQUIRED BENEATH FOOTINGS.



S201

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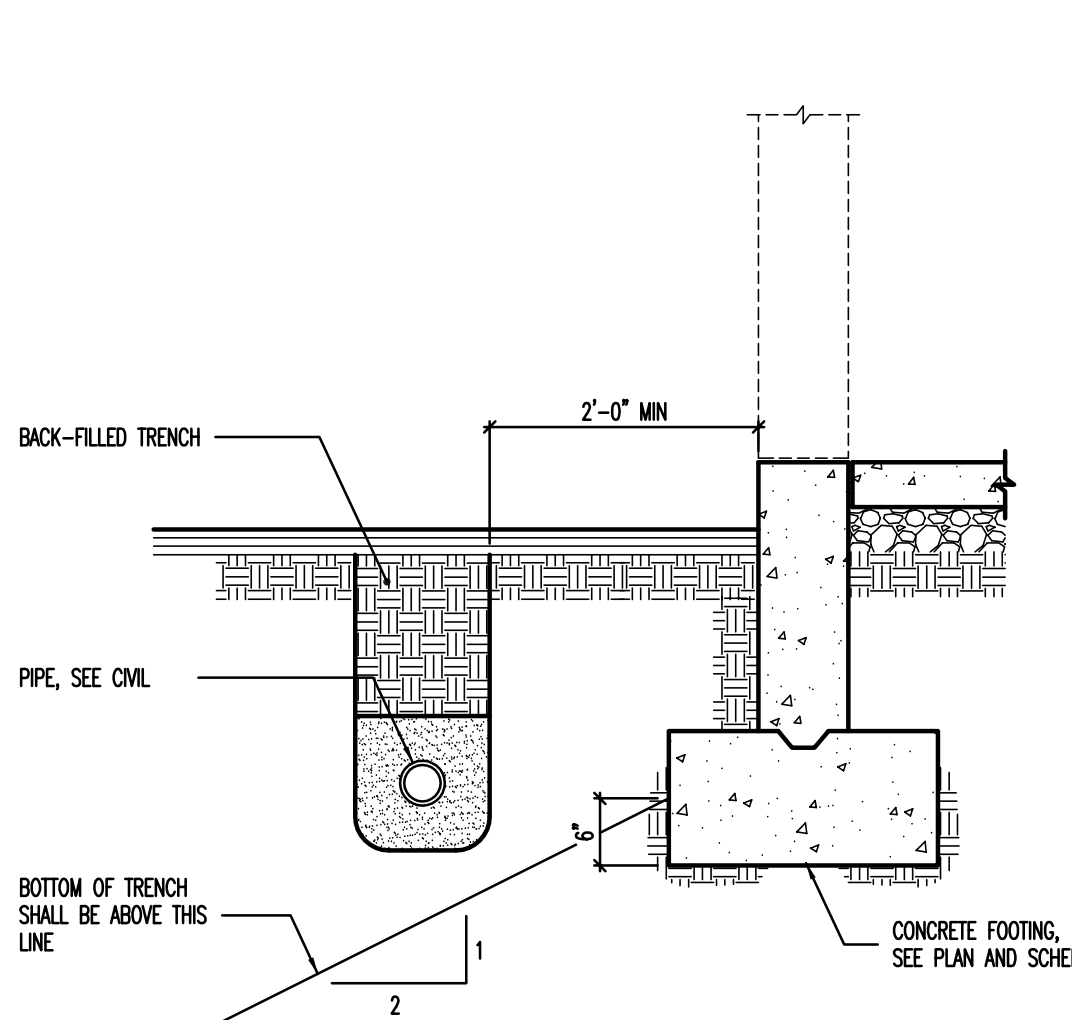
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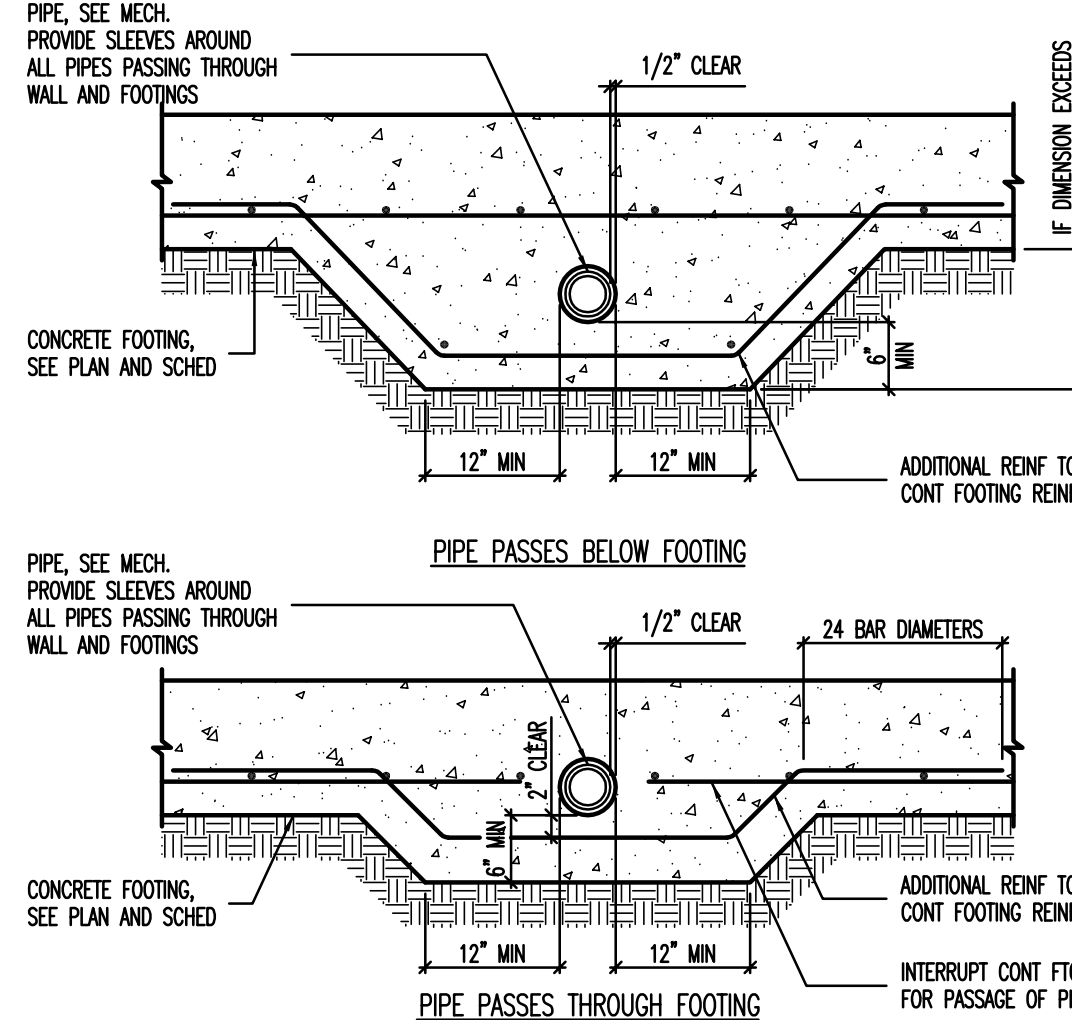
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FOOTING
AND
FOUNDATION
DETAILS

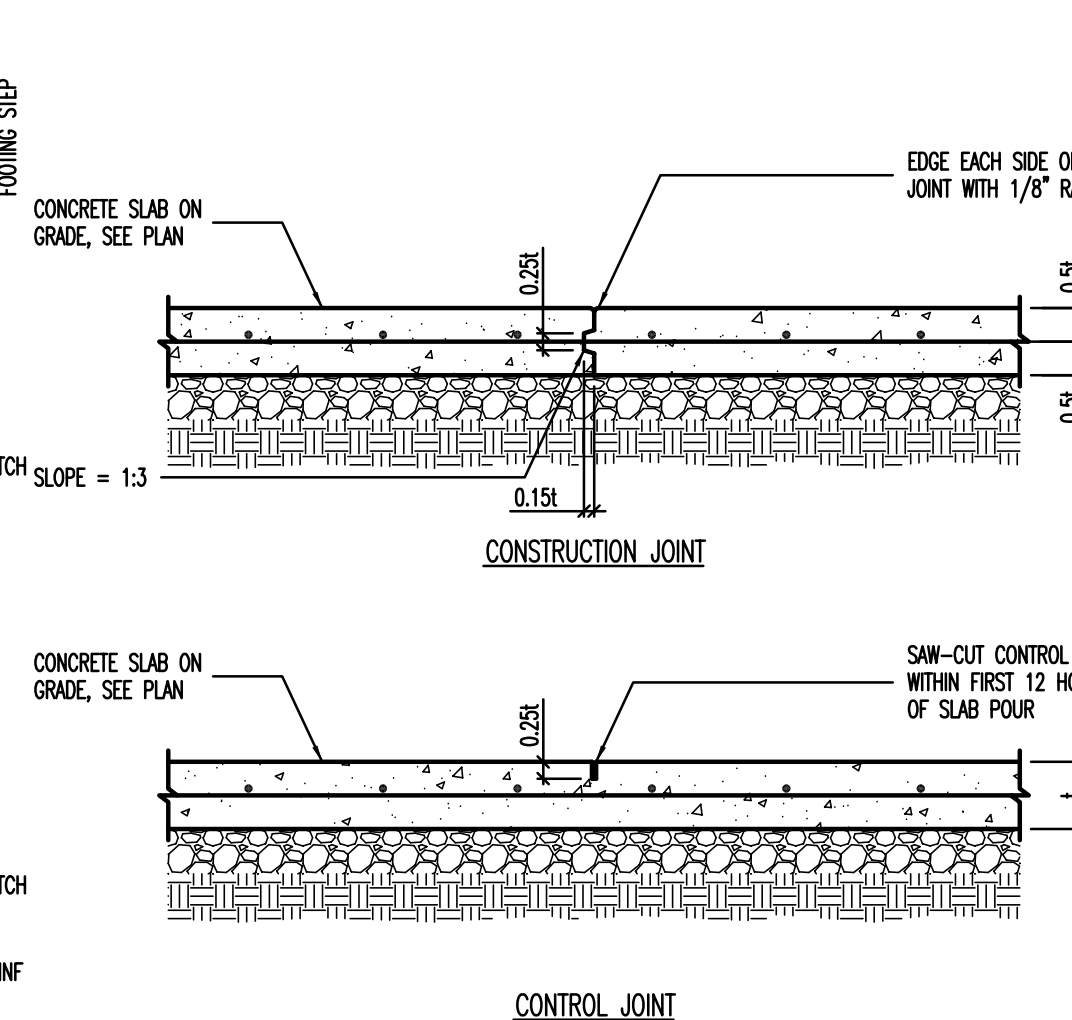
S501



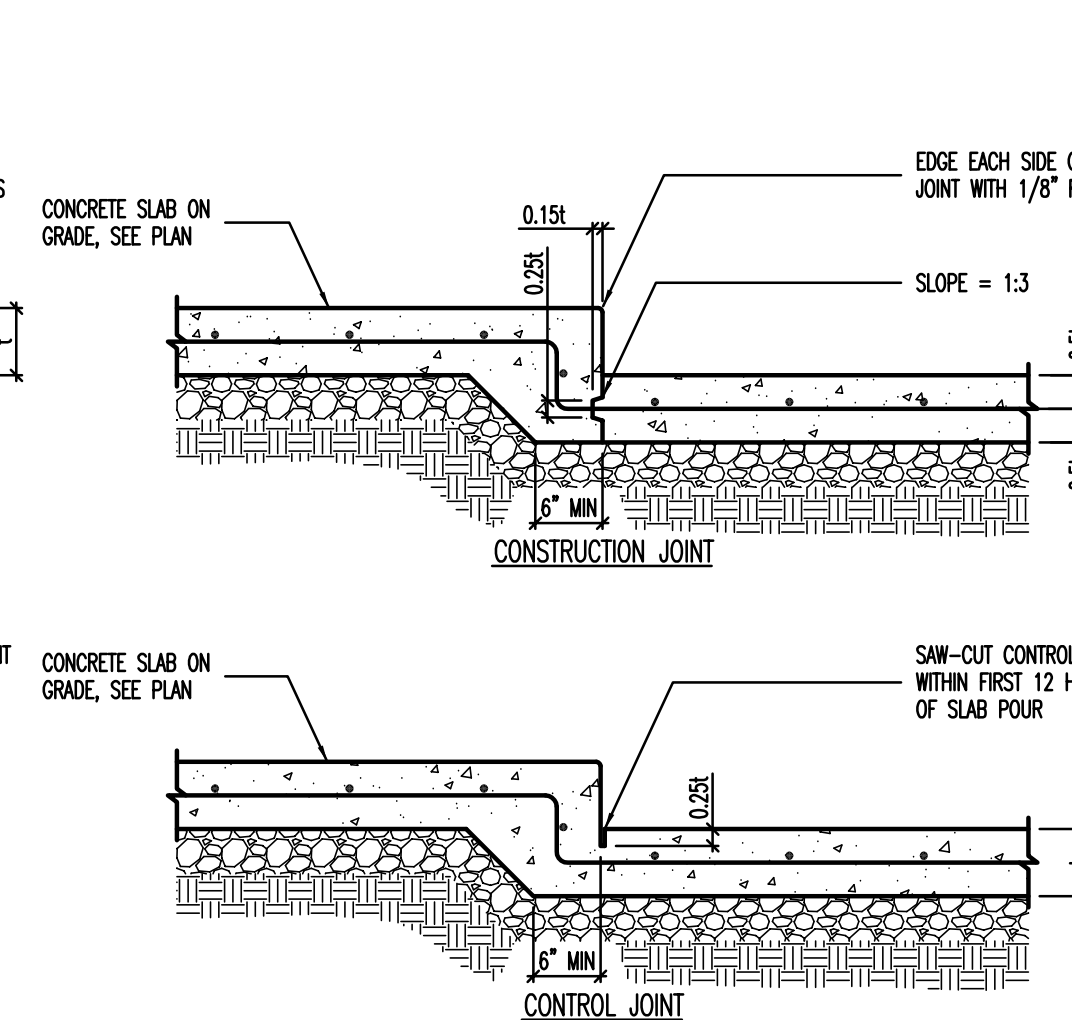
C1 CONDITION AT PIPE PARALLEL TO CONCRETE FOOTING
NO SCALE



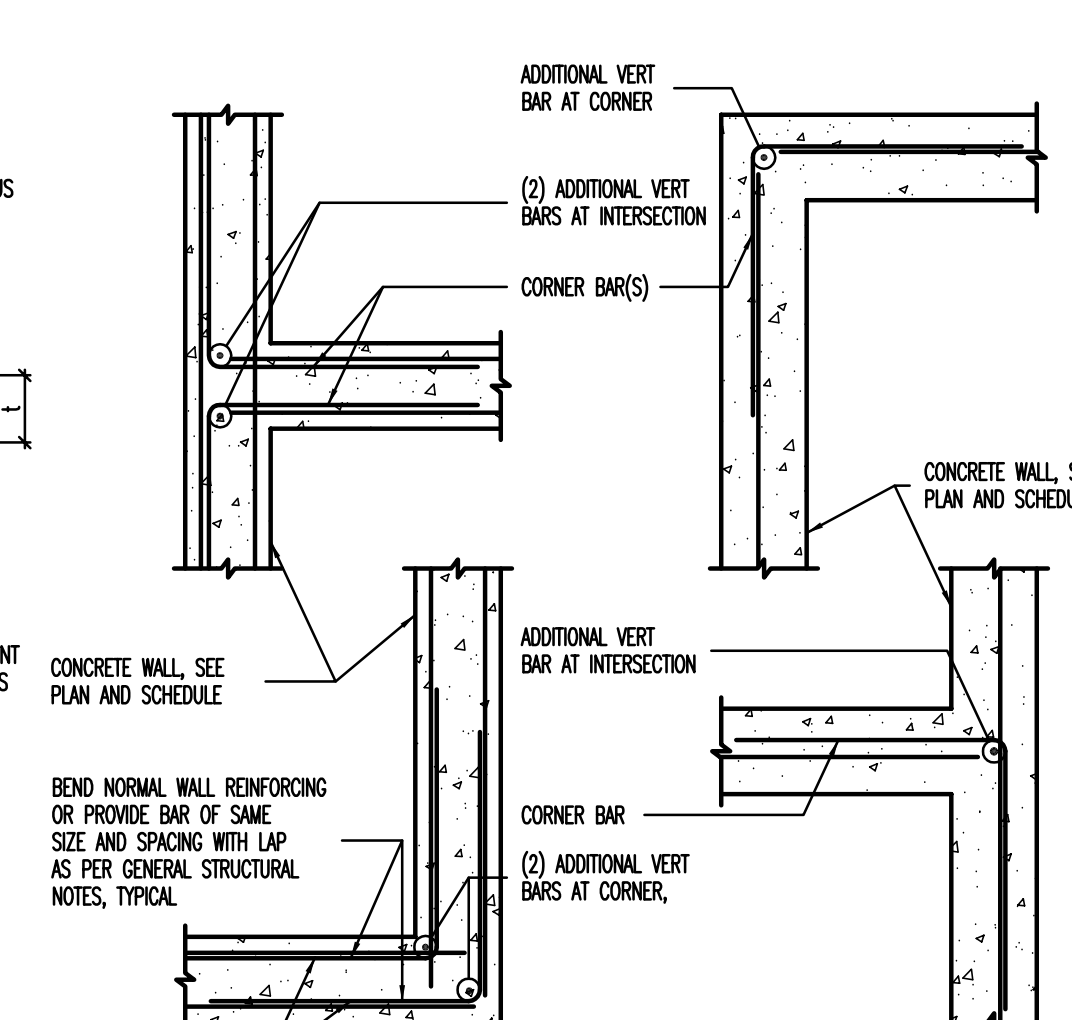
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NO SCALE



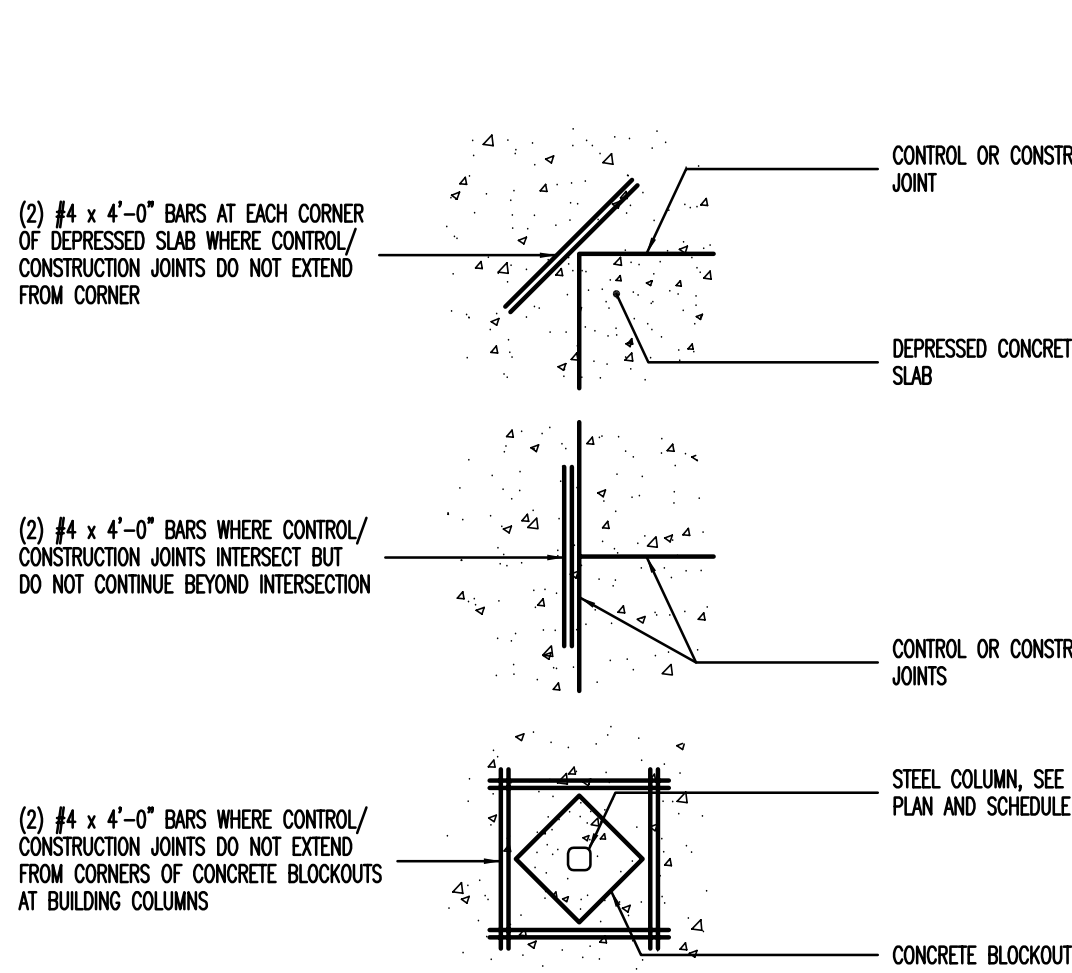
C3 TYPICAL SLAB ON GRADE JOINT DETAILS
NO SCALE



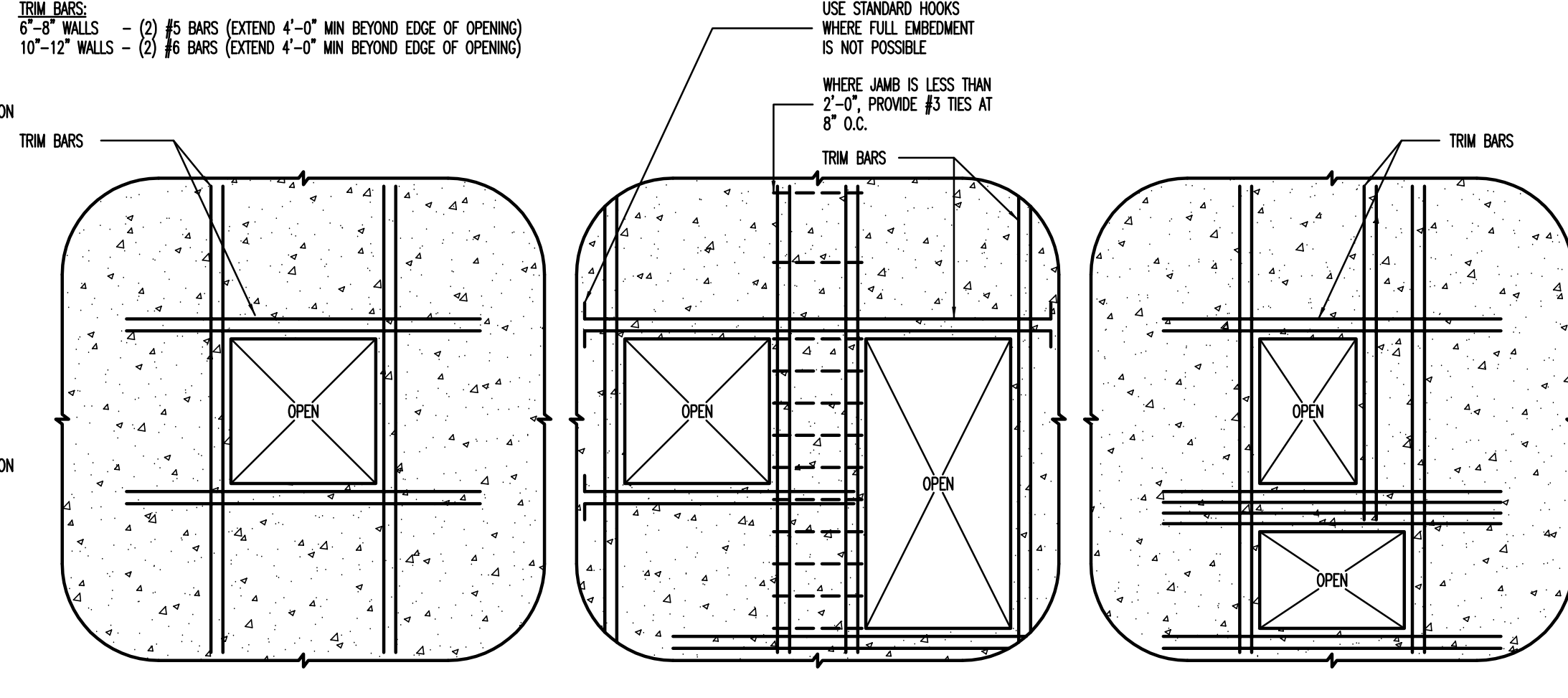
C4 JOINT DETAILS AT SLAB DEPRESSIONS
NO SCALE



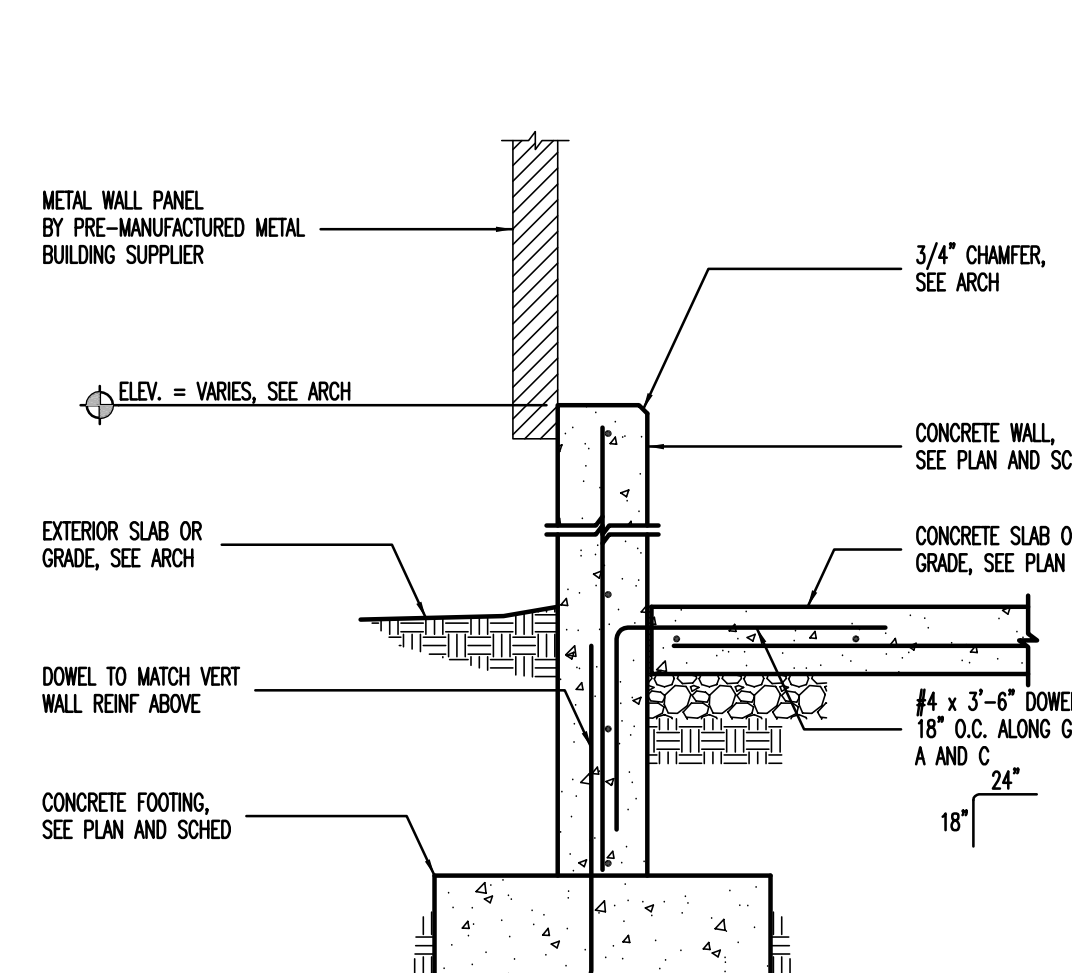
C5 TYPICAL CORNER WALL REINFORCING AT CONCRETE WALLS
NO SCALE



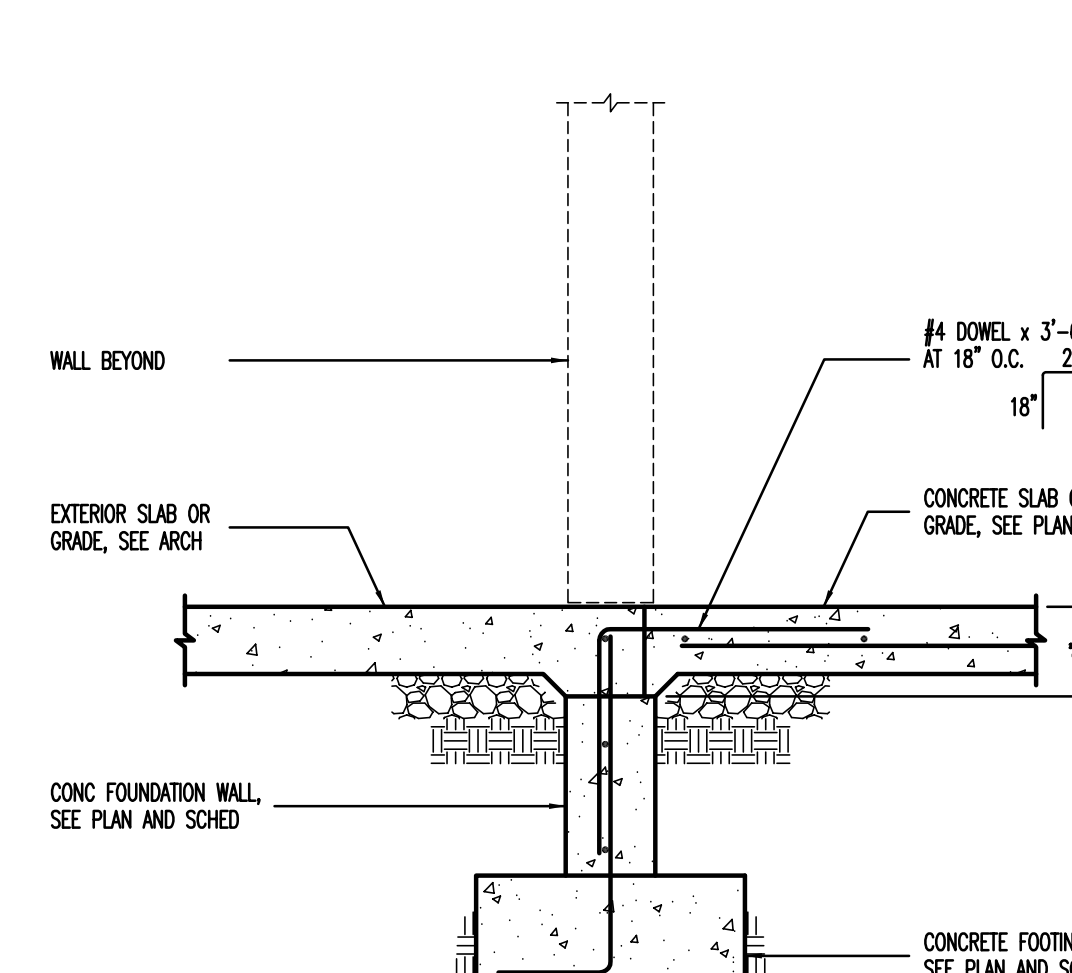
B1 LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING
NO SCALE



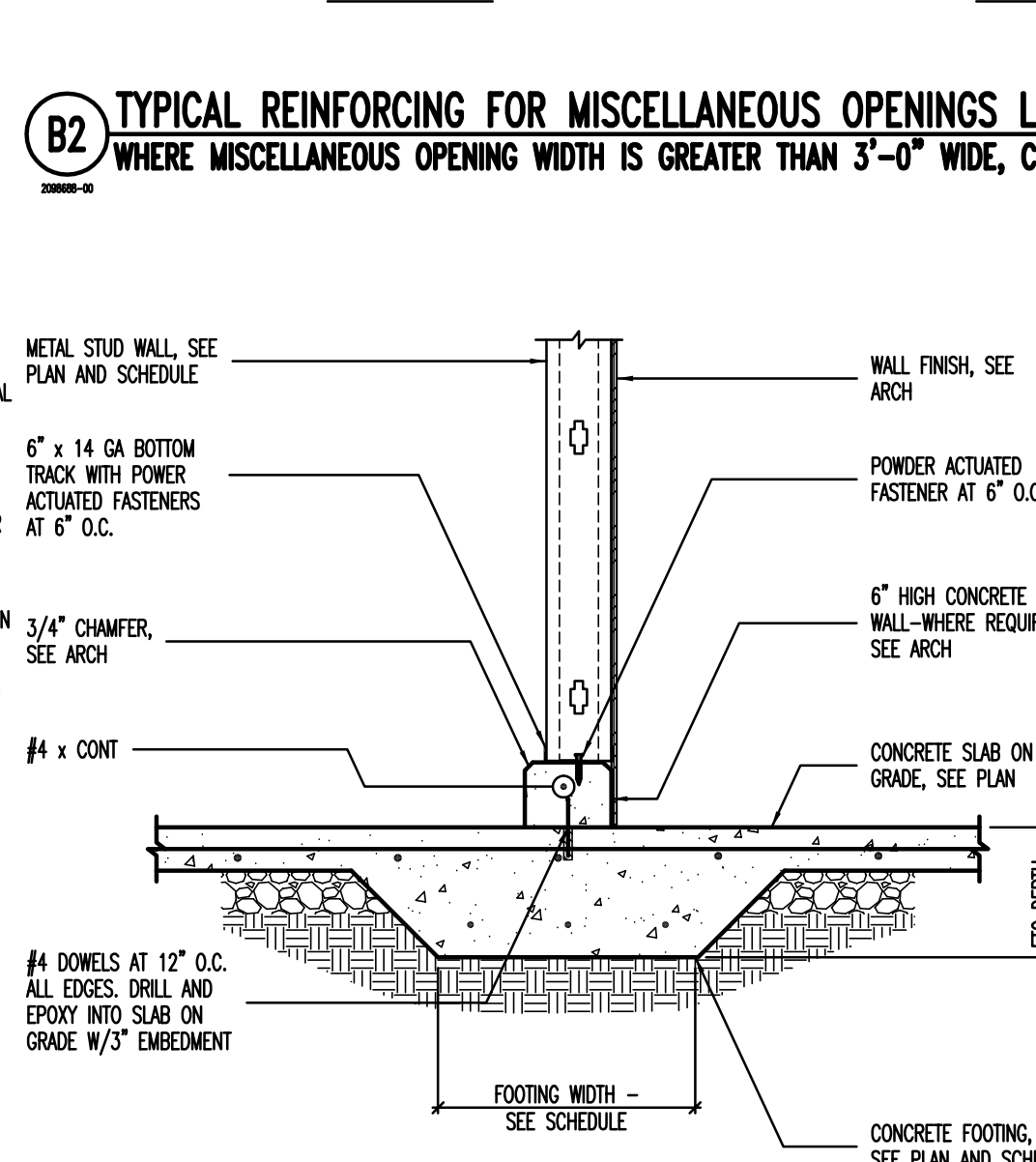
B2 TYPICAL REINFORCING FOR MISCELLANEOUS OPENINGS LESS THAN 3'-0" IN CONCRETE WALLS
NO SCALE



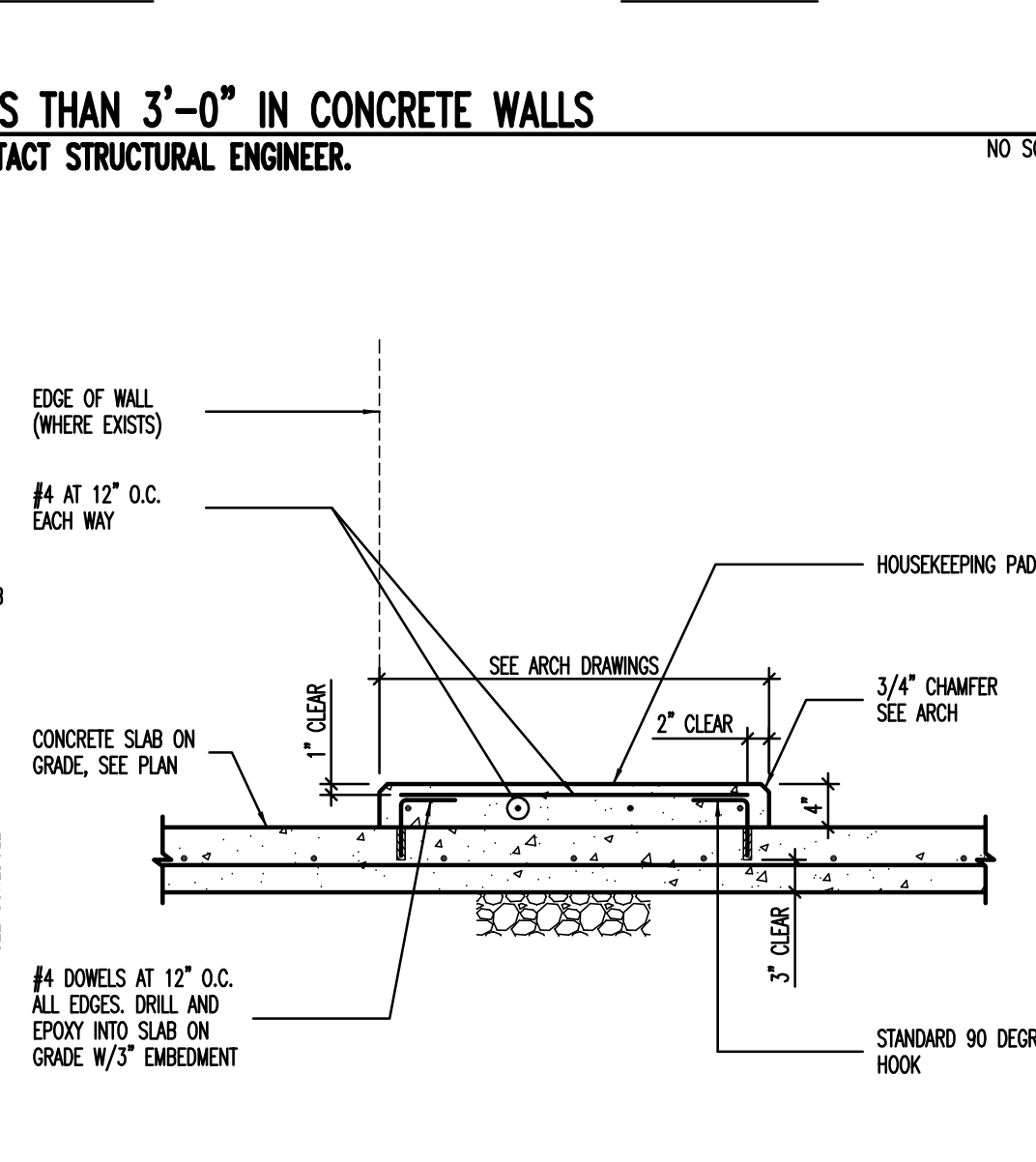
B4 FOUNDATION WALL DETAIL
NO SCALE



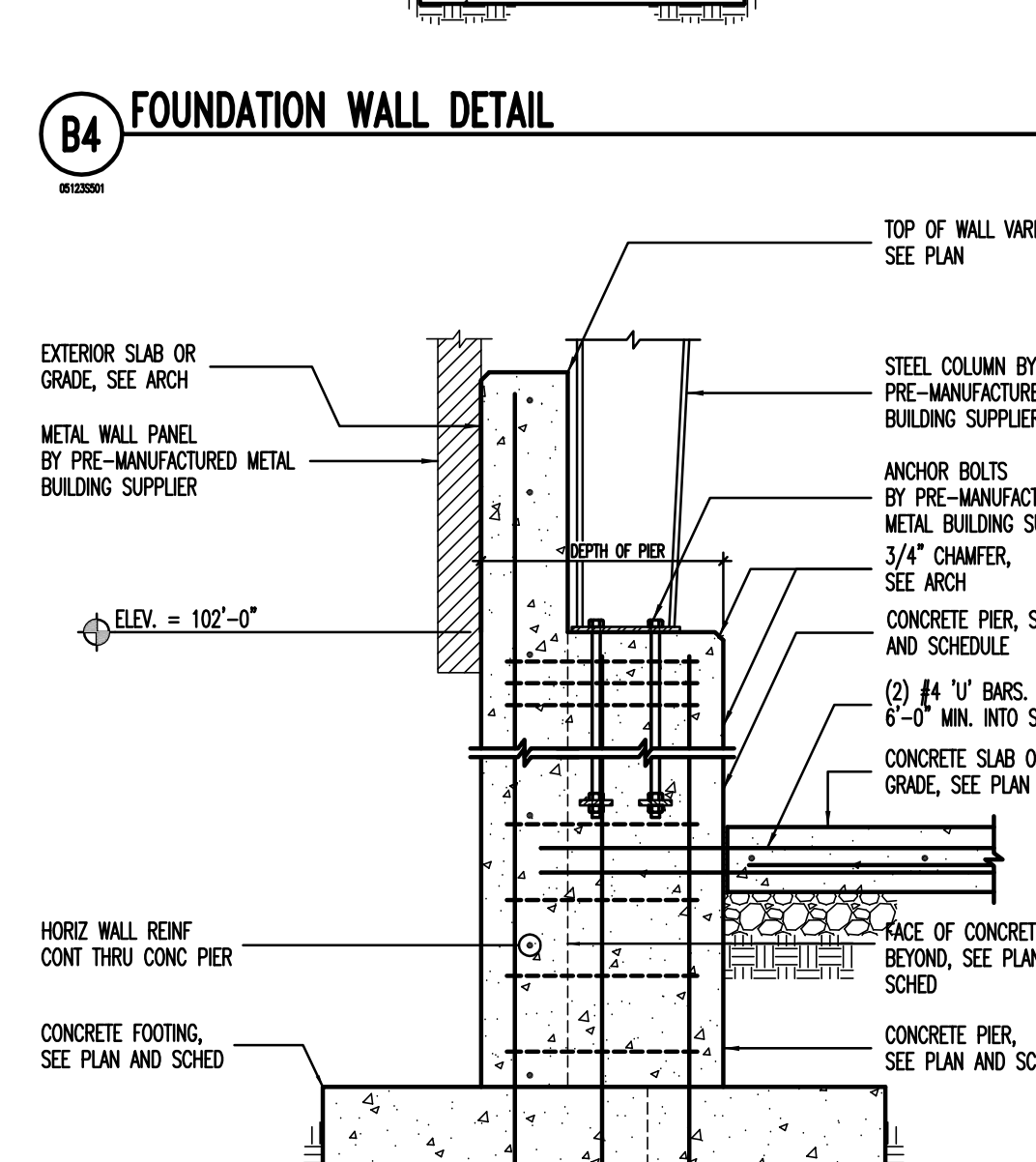
A1 STEEL COLUMN BEARING AT CONCRETE PIER/FOOTING
NO SCALE



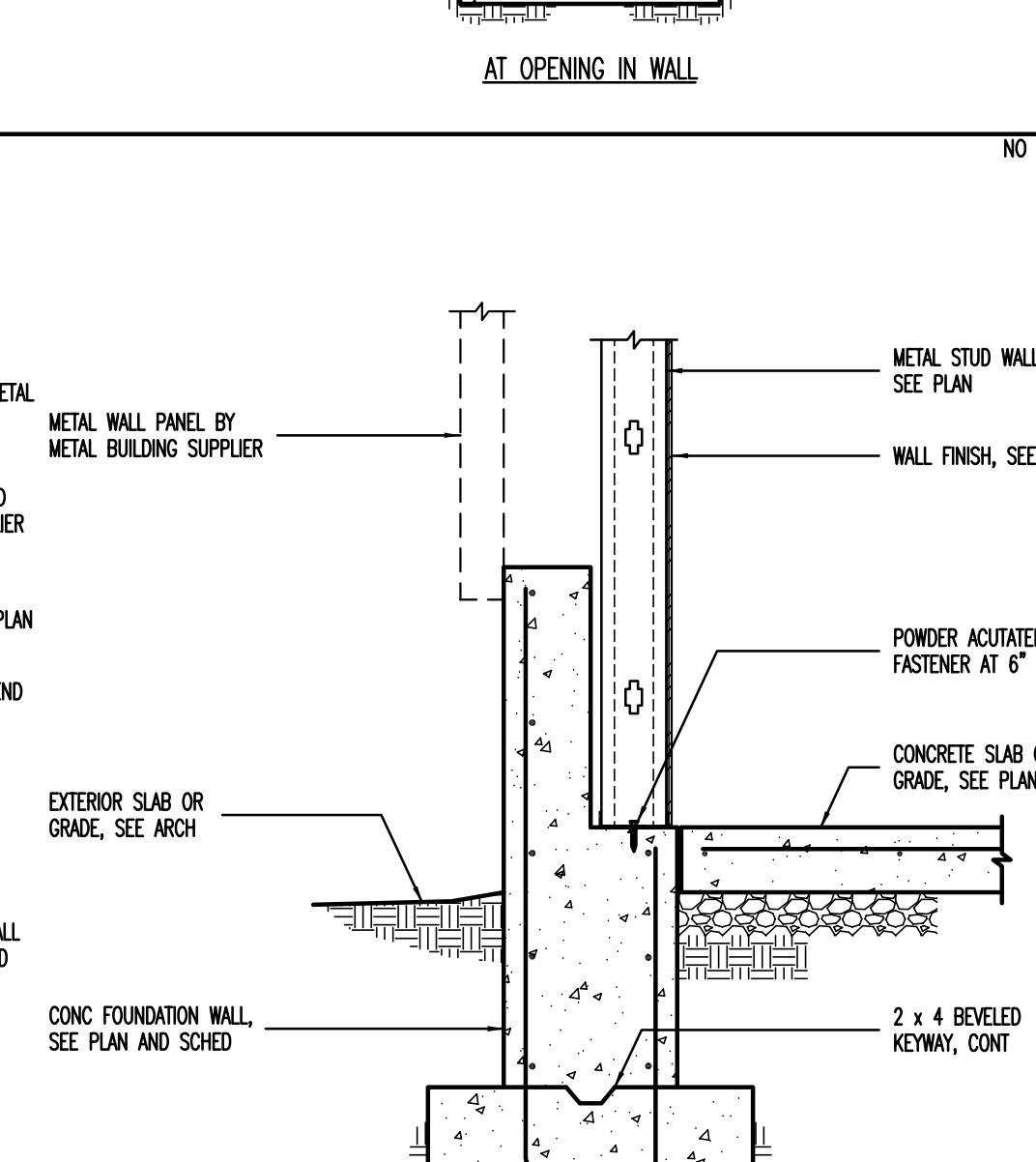
A2 THICKENED SLAB FOOTING AT INTERIOR STUD WALL
NO SCALE



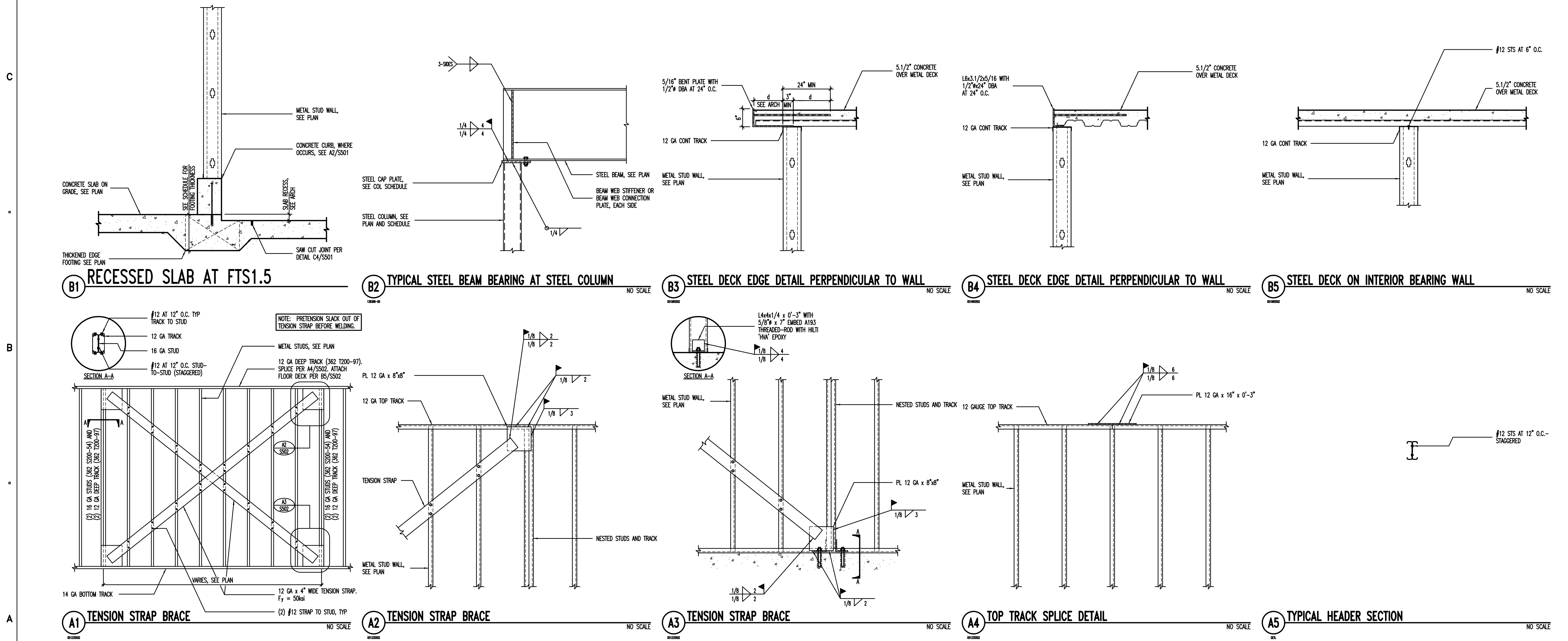
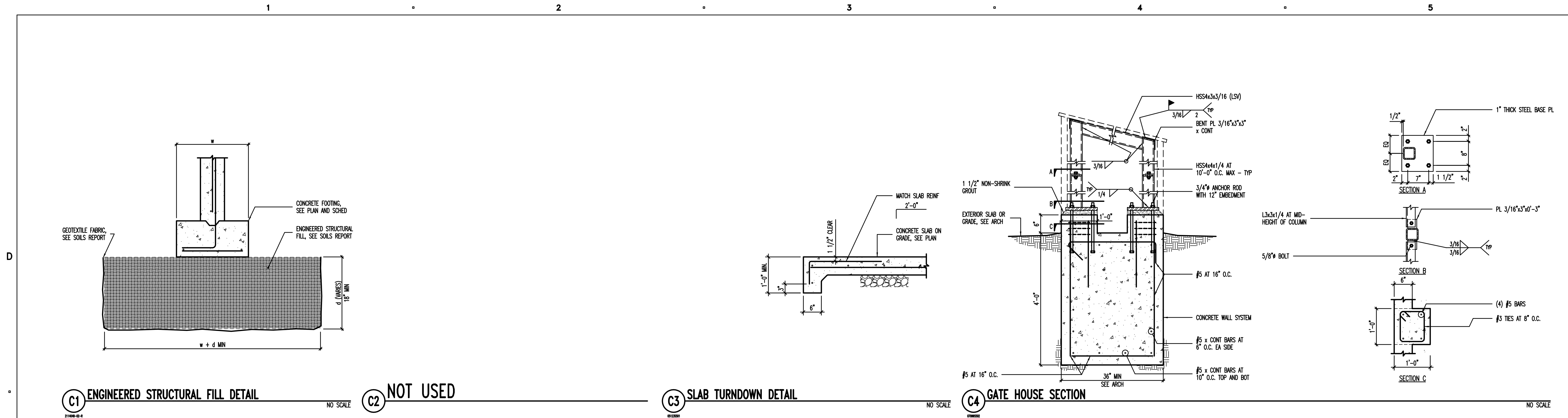
A3 TYPICAL HOUSEKEEPING PAD
NO SCALE



A1 STEEL COLUMN BEARING AT CONCRETE PIER/FOOTING
NO SCALE



A5 METAL STUD WALL AT FOOTING
NO SCALE



CLIENT



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MARK	DATE	DESCRIPTION
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DFCM PROJECT NO: 07002900

BHB PROJECT NO: 07099

DRAWN BY: CHRIS B.

CHECKED BY: GERALD M.

SCALE:

DATE: MAY 1, 2007

SHEET TITLE

FOOTING
AND
FOUNDATION
DETAILS

S502

CLIENT



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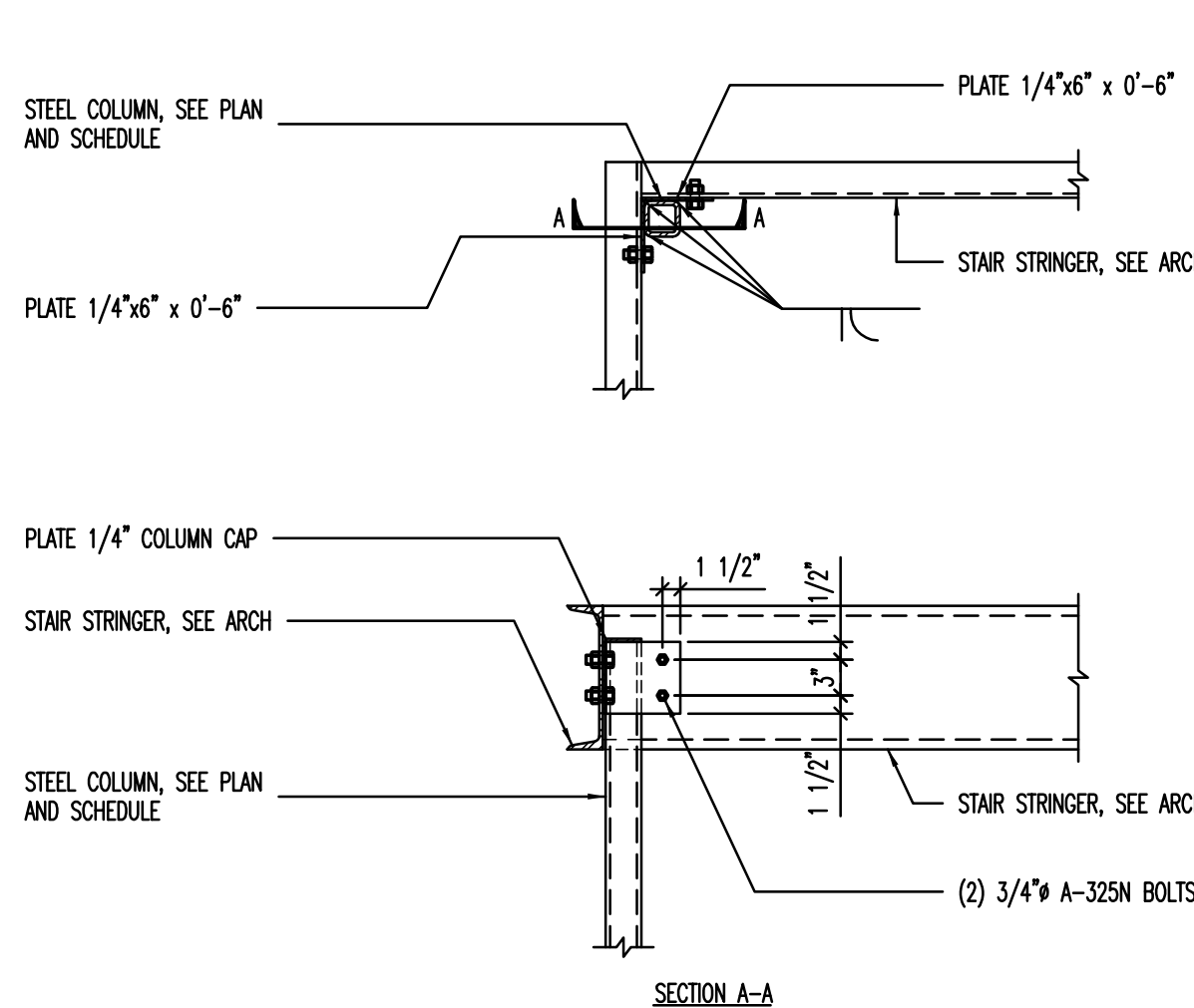
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DATE: MAY 1, 2007

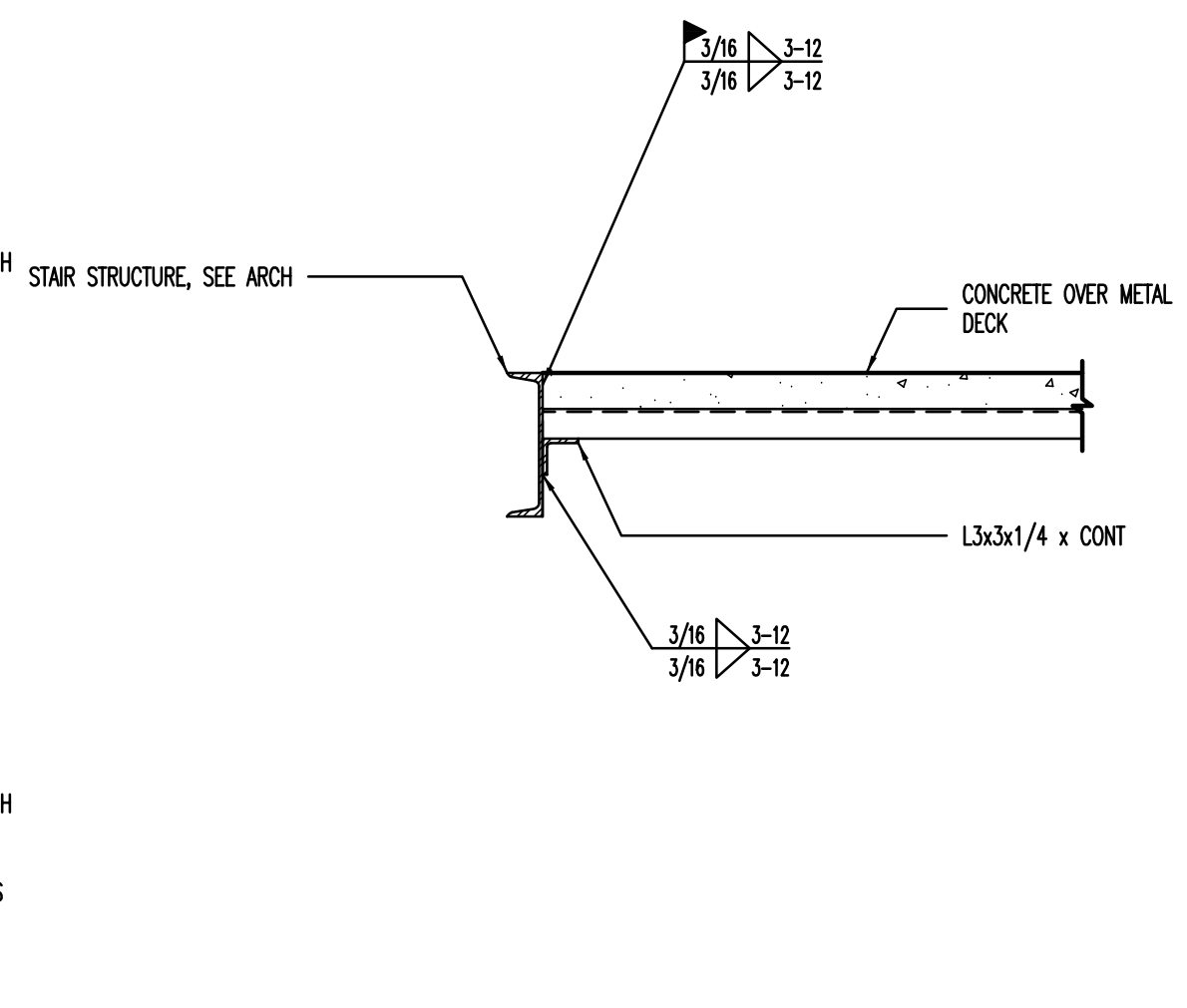
SHEET TITLE

MEZZAZINE
STAIR
DETAILS

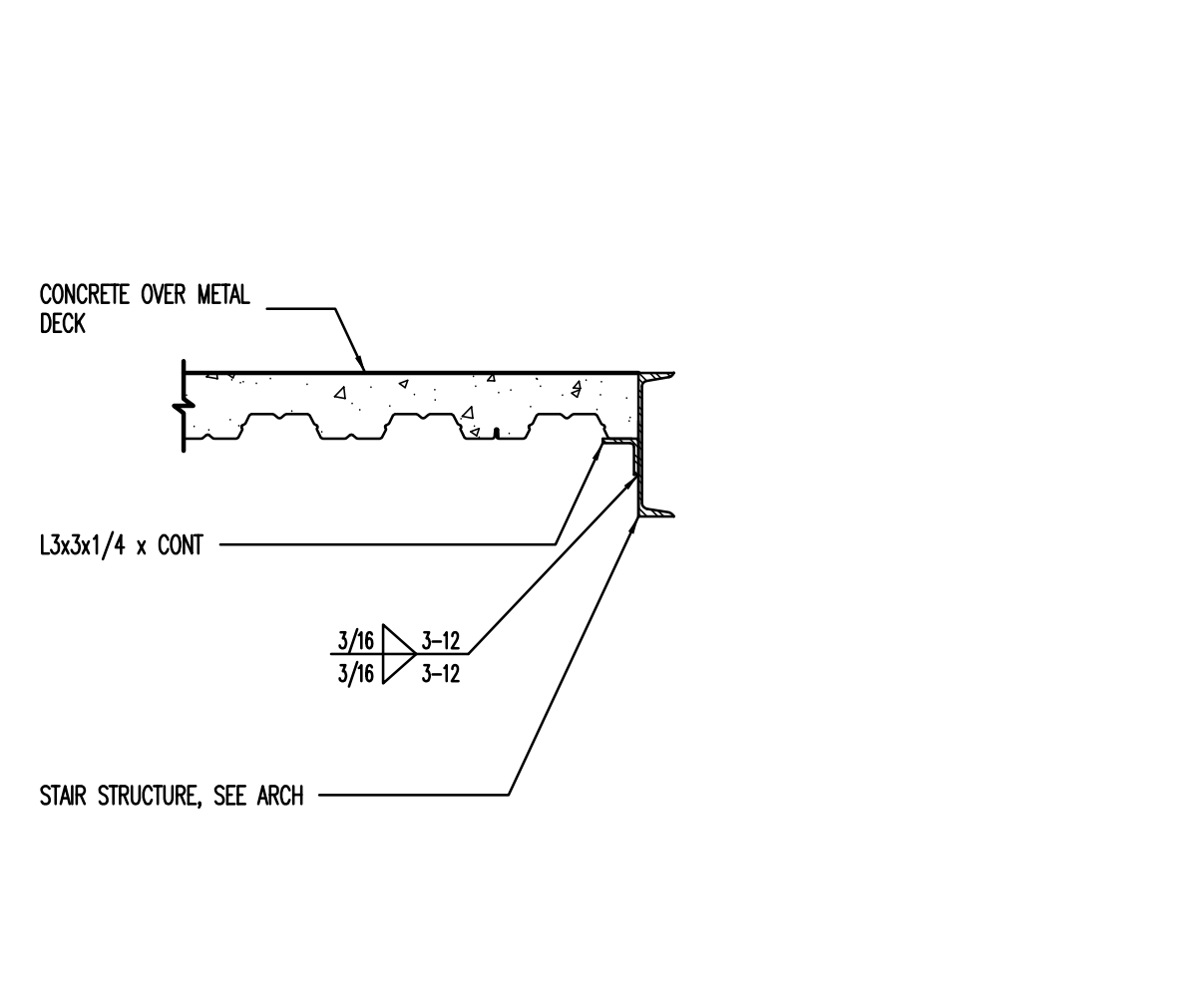
S503



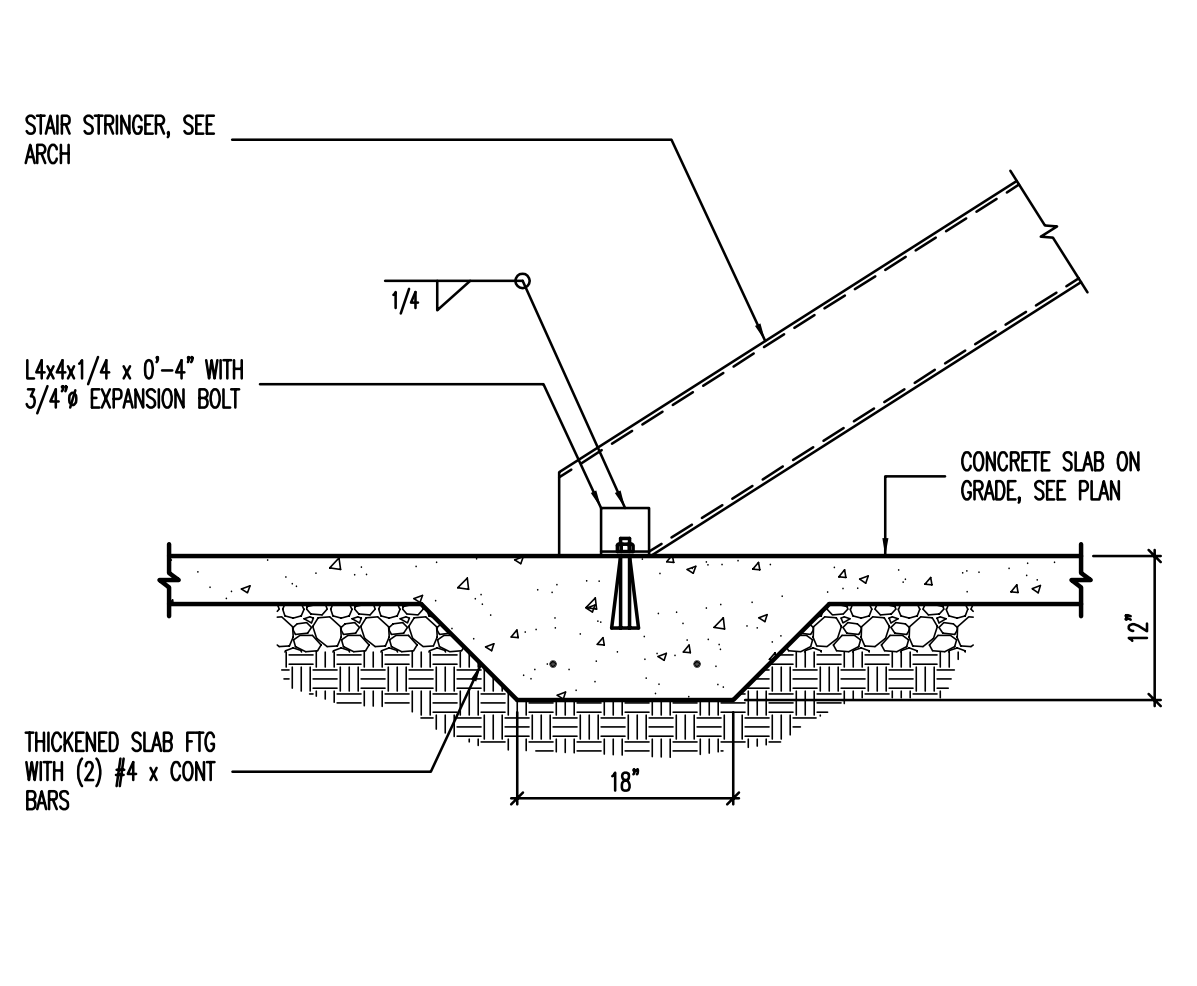
B1 STEEL COLUMN TO STAIR STRINGER CONNECTION
NO SCALE



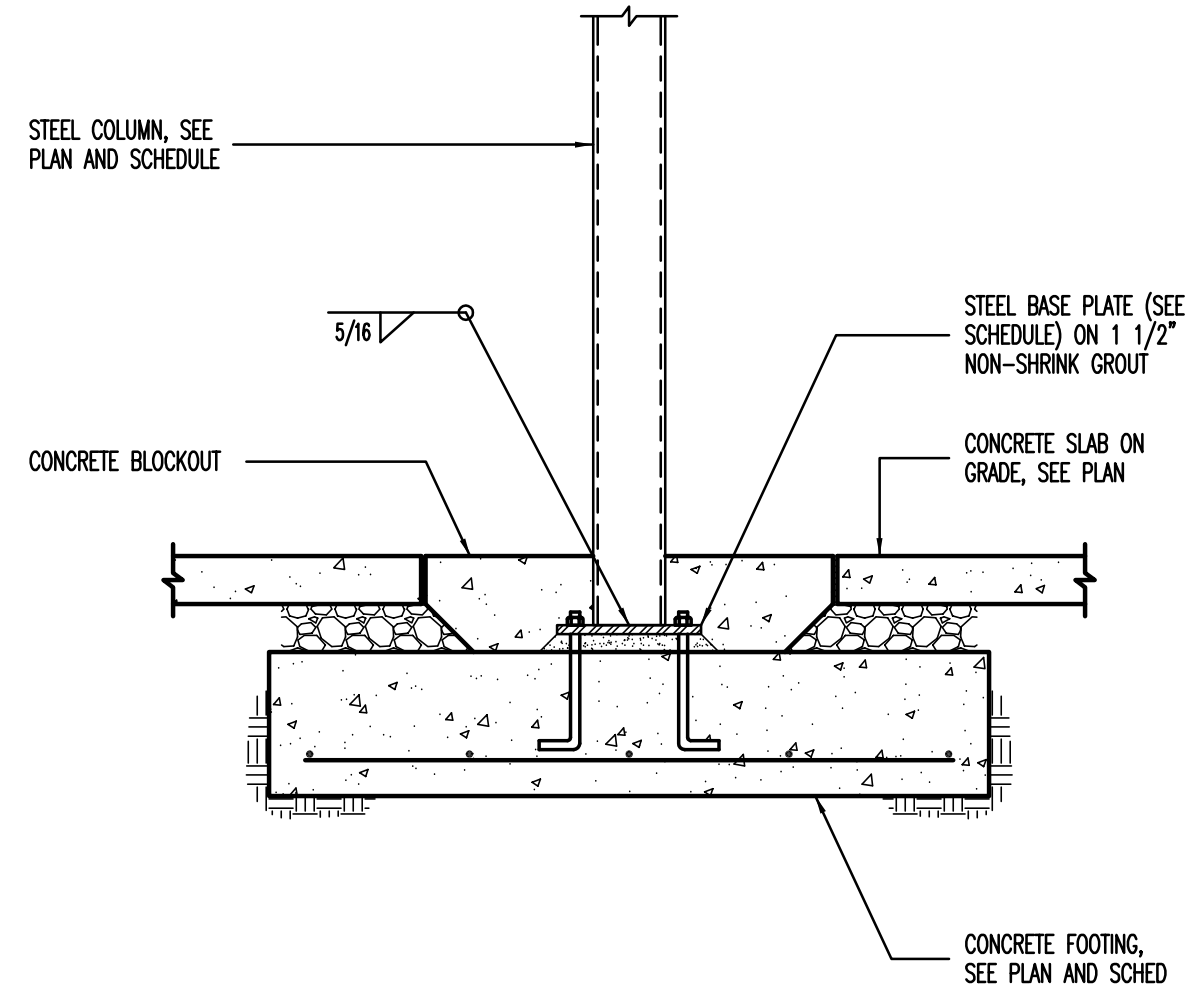
B2 STAIR LANDING DETAIL
NO SCALE



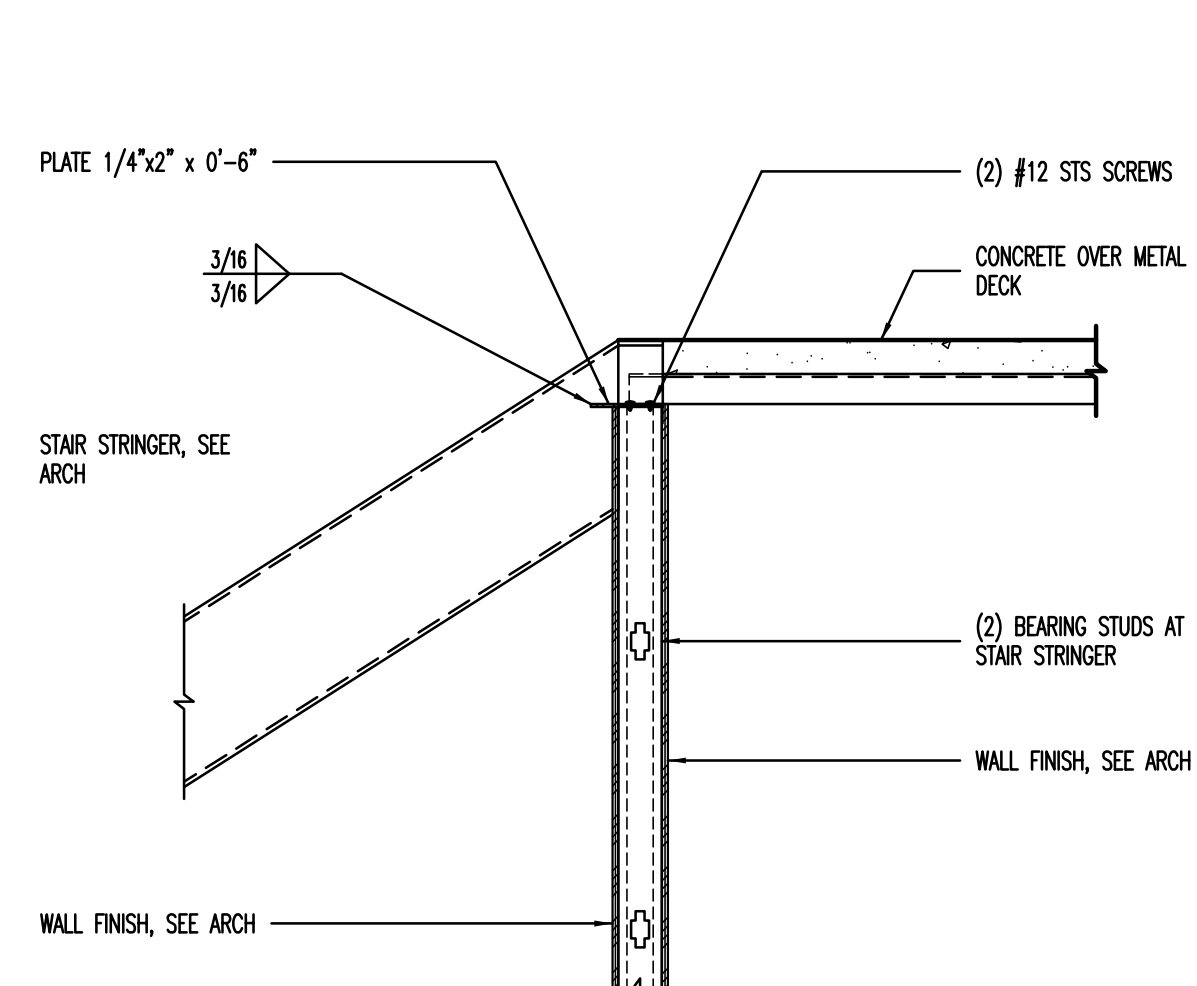
B3 STAIR LANDING DETAIL
NO SCALE



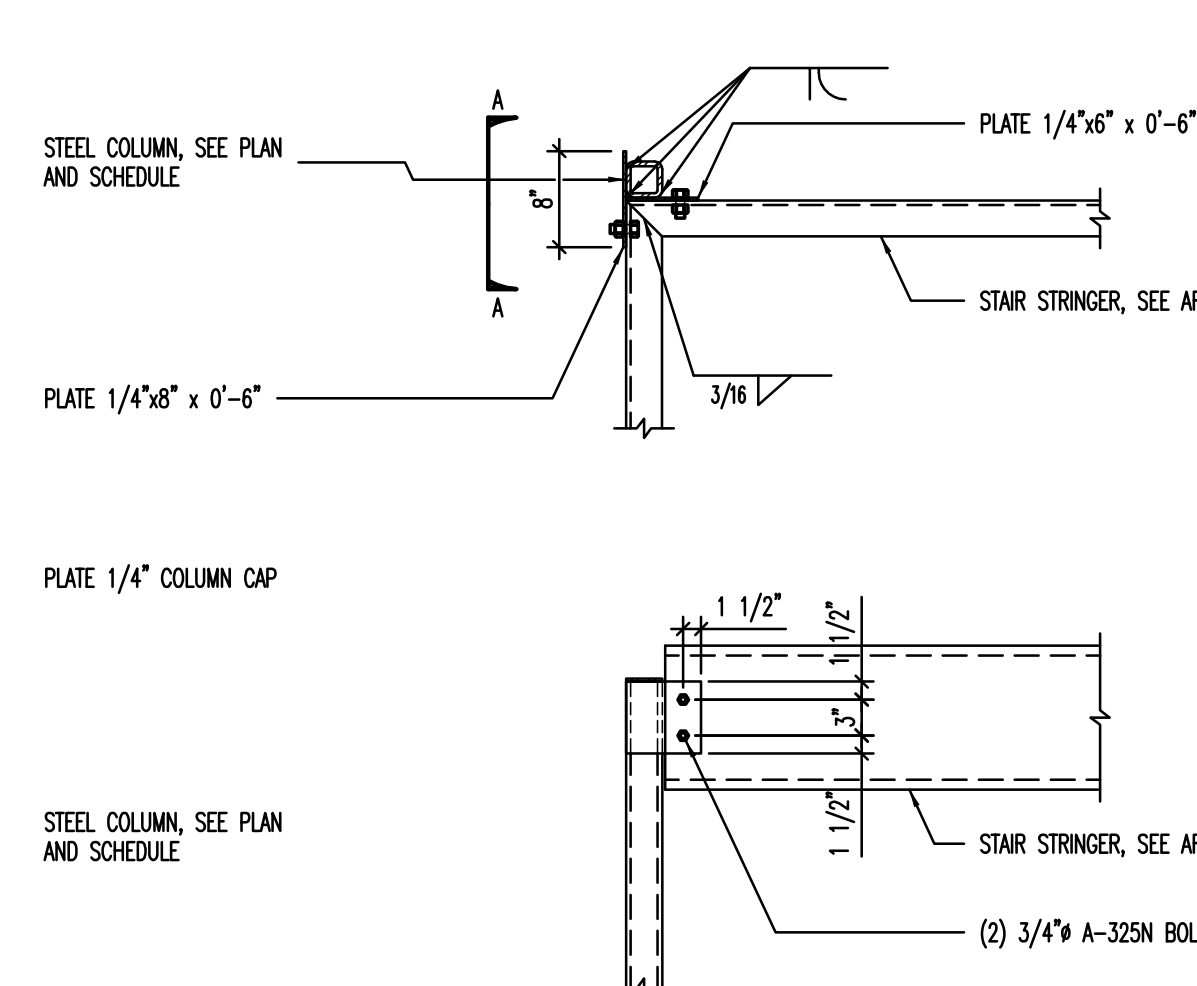
A1 TYPICAL STAIR STRINGER BEARING DETAIL
NO SCALE



A2 TYPICAL INTERIOR STEEL COLUMN TO FOOTING DETAIL
NO SCALE



A3 STAIR STRINGER CONNECTION TO METAL STUD WALL
NO SCALE



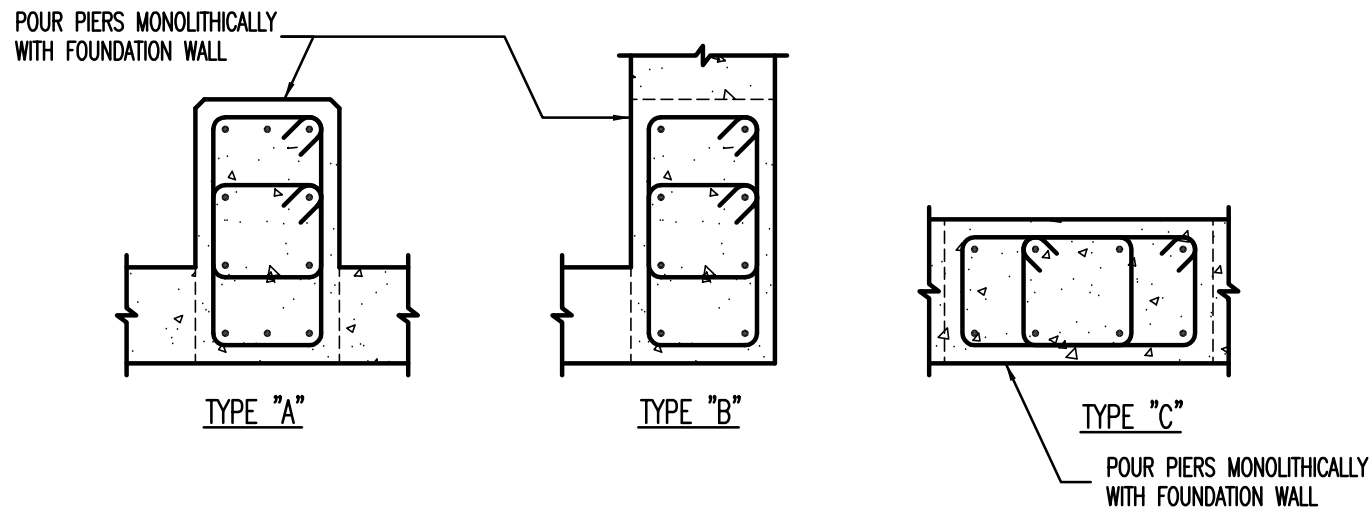
A4 STEEL COLUMN TO STAIR STRINGER CONNECTION
NO SCALE

CONCRETE FOOTING SCHEDULE												
MARK	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE				COMMENTS
				No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING	
FTS1.5	1'-6"	CONT	12"	-	-	-	-	2	#4	CONT	EQ	THICKENED SLAB
FC2.0	2'-0"	CONT	12"	-	-	-	-	3	#4	CONT	EQ	
FC2.5	2'-6"	CONT	12"	-	#5	2'-0"	14"	3	#5	CONT	EQ	
FS2.5	2'-6"	2'-6"	12"	3	#5	2'-0"	EQ	3	#5	2'-0"	EQ	
FS3.0	3'-0"	3'-0"	12"	3	#5	2'-6"	EQ	3	#5	2'-6"	EQ	
FS3.5	3'-6"	3'-6"	12"	3	#5	3'-0"	EQ	3	#5	3'-0"	EQ	
FS4.0	4'-0"	4'-0"	12"	4	#5	3'-6"	EQ	4	#5	3'-6"	EQ	
FS4.5	4'-6"	4'-6"	12"	4	#5	4'-0"	EQ	4	#5	4'-0"	EQ	
FS5.0	5'-0"	5'-0"	12"	5	#5	4'-6"	EQ	5	#5	4'-6"	EQ	
FS5.5	5'-6"	5'-6"	12"	5	#5	5'-0"	EQ	5	#5	5'-0"	EQ	
FS6.0	6'-0"	6'-0"	12"	6	#5	5'-6"	EQ	6	#5	5'-6"	EQ	
FS7.0	7'-0"	7'-0"	14"	8	#5	6'-6"	EQ	8	#5	6'-6"	EQ	
FS7.5	7'-6"	7'-6"	14"	8	#5	7'-0"	EQ	8	#5	7'-0"	EQ	

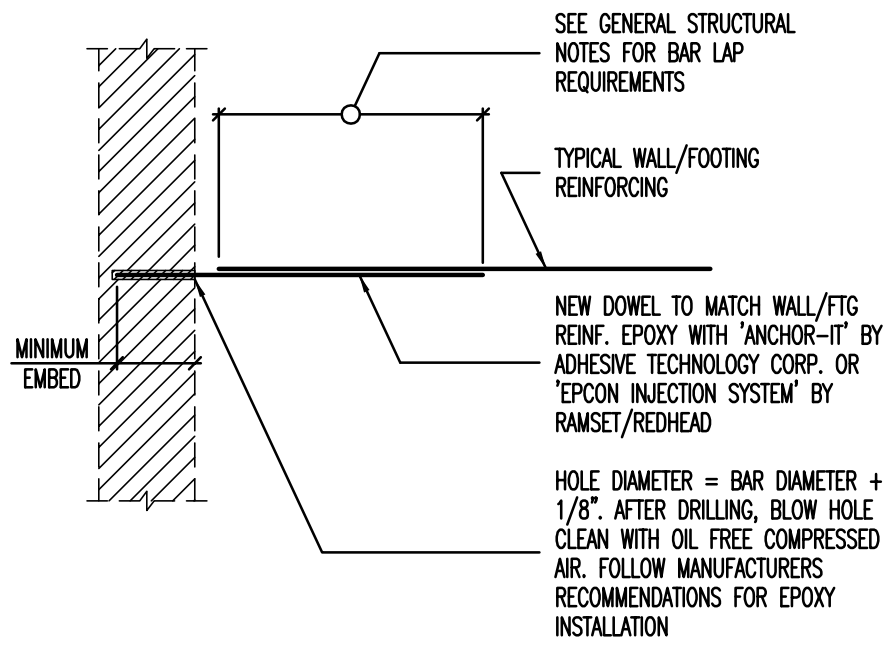
- CONCRETE FOOTING NOTES:
1. PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNO).
 2. TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
 3. IF FOOTINGS ARE EARTH-FORMED, FOOTINGS SHALL BE 6" LONGER AND WIDER THAN SCHEDULED.
 4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
 5. SOME SCHEDULED FOOTINGS MAY NOT BE USED, SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.

CONCRETE PIER SCHEDULE						
MARK	PIER SIZE	REINFORCING		TYPE		COMMENTS
		VERTICAL	TIES			
CP-1	12" x 22"	(10) #5	(2) #3 AT 8" O.C.	A		
CP-2	12" x 18"	(8) #5	(2) #3 AT 8" O.C.	B		
CP-3	12" x 18"	(8) #5	(2) #3 AT 8" O.C.	C		
CP-4	12" x 18"	(8) #5	(2) #3 AT 8" O.C.	C		

- CONCRETE PIER NOTES:
1. INSTALL (3) SETS OF TIES AT 3" O.C. AT TOP OF ALL PIERS (UNO).
 2. RUN HORIZONTAL CONCRETE WALL REINFORCING CONTINUOUS THROUGH PIER WHEN PIER IS POURED MONOLITHICALLY WITH CONCRETE WALL.
 3. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



EPOXY DOWEL EMBED SCHEDULE	
DOWEL SIZE	MINIMUM EMBEDMENT INTO EXISTING CONCRETE
#4	6 1/2"
#5	7 1/2"
#6	10"
#7	1'-1"
#8	1'-4"



C3 EPOXY DOWEL EMBED SCHEDULE

NO SCALE

C1 CONCRETE FOOTING SCHEDULE

NO SCALE

C2 CONCRETE PIER SCHEDULE

NO SCALE

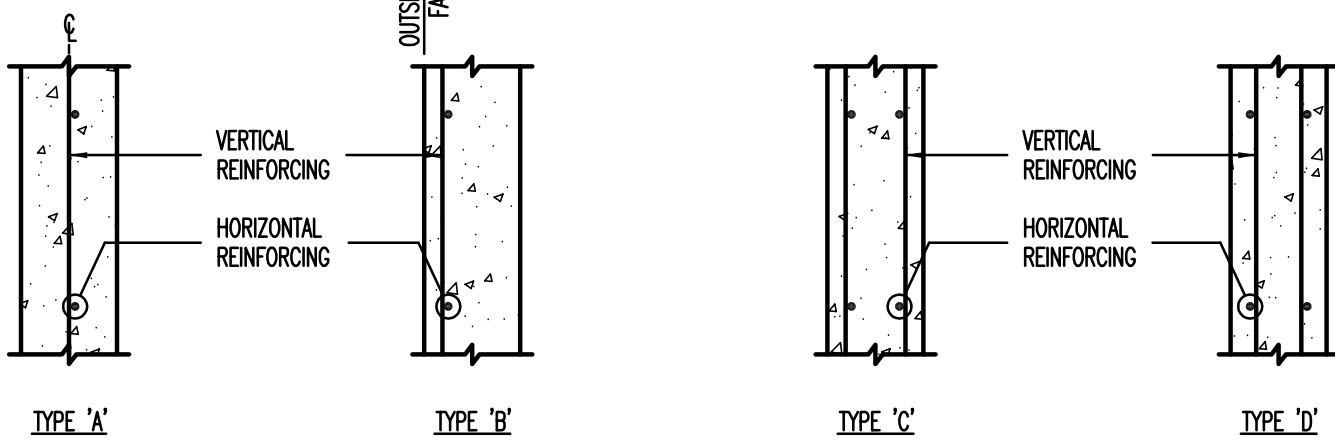
CONCRETE WALL SCHEDULE						
MARK	THICKNESS	REINFORCING			WALL TYPE	COMMENTS
		VERTICAL	HORIZONTAL	TOP AND BOTTOM		
CW-1	12"	#5 AT 16" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #5	C	
CW-2	12"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #4	C	
CW-3	12"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #4	C	
CW-4	12"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	A	ABV. ELEV. 100'-0"
	20"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #4	C	BELOW ELEV. 100'-0"
CW-5	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	A	ABV. ELEV. 100'-0"
	16"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #4	C	BELOW ELEV. 100'-0"
CW-6	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	A	
CW-7	8"	#5 AT 15" O.C.	#4 AT 12" O.C.	(1) #5	B	
CW-8	8"	#5 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	B	

- CONCRETE FOUNDATION WALL NOTES:
1. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
 2. CONCRETE FOUNDATION WALLS NOT DESIGNATED ON PLANS SHALL BE REINFORCED AS FOLLOWS:

ABBREVIATIONS:
E.F. EACH FACE
I.F. INSIDE FACE
O.F. OUTSIDE FACE

THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
6"	#4 BARS AT 18" O.C.	#4 BARS AT 16" O.C.
8"	#4 BARS AT 18" O.C.	#4 BARS AT 12" O.C.
10"	#4 BARS AT 18" O.C.	#5 BARS AT 15" O.C.
12"	#4 BARS AT 18" O.C. E.F.	#4 BARS AT 16" O.C. E.F.

WALL REINFORCING PLACEMENT TYPES:



CONCRETE REINFORCING BAR LAP SPICE SCHEDULE																
BAR SIZE	f'c = 3000psi				f'c = 4000psi				f'c = 5000psi				f'c = 6000psi			
	REGULAR		TOP		REGULAR		TOP		REGULAR		TOP		REGULAR		TOP	
	CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
#3	13"	17"	17"	21"	12"	16"	16"	21"	12"	16"	16"	21"	12"	16"	16"	21"
#4	17"	22"	22"	28"	15"	19"	19"	25"	13"	17"	17"	22"	12"	16"	16"	21"
#5	21"	27"	27"	35"	18"	24"	24"	31"	16"	21"	21"	27"	15"	19"	19"	25"
#6	27"	36"	36"	46"	24"	31"	31"	40"	21"	28"	28"	36"	20"	25"	25"	33"
#7	37"	48"	48"	63"	32"	42"	42"	54"	29"	38"	38"	49"	27"	34"	34"	44"
#8	49"	64"	64"	82"	42"	55"	55"	71"	38"	49"	49"	64"	35"	45"	45"	58"
#9	62"	80"	80"	104"	54"	70"	70"	90"	48"	62"	62"	81"	44"	57"	57"	74"
#10	78"	102"	102"	132"	68"	88"	88"	115"	61"	79"	79"	102"	56"	72"	72"	94"
#11	96"	125"	125"	162"	83"	108"	108"	141"	76"	97"	97"	126"	68"	88"	88"	115"

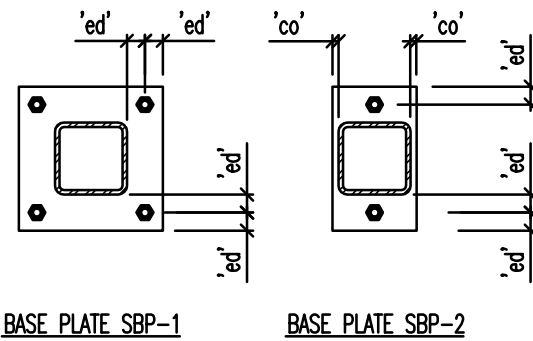
- CONCRETE REINFORCING BAR LAP SPlice NOTES:
1. THIS SCHEDULE SHALL BE USED FOR ALL BAR SPICES IN CONCRETE WALLS, UNLESS NOTED OTHERWISE.
 2. CLASS 'A' SPICES MAY BE USED ONLY IN CASES WHERE 50% OR LESS OF THE BARS ARE SPICED WITHIN THE LAP SPICE LENGTH.
 3. CLASS 'B' SPICES SHALL BE USED FOR ALL SPICES UNLESS THE REQUIREMENTS OF NOTE NO. 2 ABOVE ARE MET.
 4. TIES AND STIRRUPS SHALL NOT BE SPICED.
 5. SPICES FOR BUNDLED BARS:
 - a. FOR BUNDLED BARS OF THREE OR LESS, LAP SPICE LENGTHS SHALL BE MULTIPLIED BY 1.2.
 - b. FOR BUNDLED BARS OF FOUR OR MORE, LAP SPICE LENGTHS SHALL BE MULTIPLIED BY 1.33.
 - c. INDIVIDUAL BAR SPICES WITHIN A BUNDLE SHALL NOT OVERLAP.
 - d. ENTIRE BUNDLES SHALL NOT BE LAP SPICED.
 6. FOR ALL LIGHTWEIGHT CONCRETE, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3.
 7. FOR ALL EPOXY COATED BARS, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3 FOR TOP BARS AND 1.5 FOR REGULAR BARS.
 8. TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12", OR MORE, OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR.
 9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

STEEL COLUMN SCHEDULE				
MARK	SIZE	STEEL BASE PLATE	STEEL CAP PLATE	COMMENTS
SC-1	HSS3x3x1/4	1/2" (SBP-1)	1/2" (SCP-1)	
SC-2	HSS3x3x1/4	1/2" (SBP-2)	1/2" (SCP-1)	
SC-3	HSS3x3x1/4	1/2" (SBP-3)	1/4" SEE DETAIL B1/SS03	
SC-4	HSS3x3x1/4	1/2" (SBP-1)	1/4" SEE DETAIL A4/SS03	

- STEEL COLUMN NOTES:
1. UNLESS NOTED OTHERWISE, ALL COLUMNS SHALL BE INSTALLED WITH (4) 3/4" ANCHOR BOLTS WITH 3" MINIMUM HOOKS. PROJECT ANCHOR BOLTS 3" MINIMUM ABOVE THE TOP OF THE BASE PLATE. EMBEDMENT SHALL BE 9" MINIMUM. ALL BOLTS SHALL BE INSTALLED WITH HARDENED WASHERS BENEATH THE NUT. ANY BOLT HOLES LARGER THAN THE BOLT DIAMETER PLUS 5/16" SHALL HAVE 5/16" PLATE WASHERS INSTALLED BENEATH THE HARDENED WASHERS.
 2. ALL CAP PLATE BOLTS SHALL BE 3/4" A325N BOLTS, TYPICAL UNLESS NOTED OTHERWISE.
 3. ANCHOR BOLTS SHALL NOT BE WELDED (INCLUDING TACK WELDS).
 4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

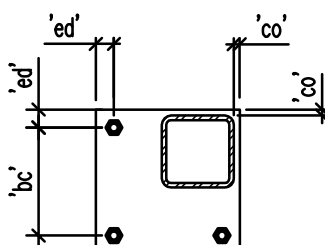
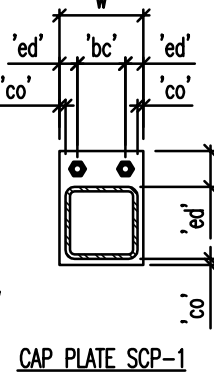
STEEL BASE PLATE TYPES:

BASE PLATE LEGEND
co = 1/2" MINIMUM
ed = 1 1/2" MINIMUM
bc = 3" MINIMUM



STEEL CAP PLATE TYPES:

CAP PLATE LEGEND
co = 1/2" MINIMUM
ed = 1 1/2" MINIMUM
bc = BEAM OR GIRDER GAGE
w = BEAM OR GIRDER WIDTH + 1" OR COLUMN WIDTH + 1" WHICHEVER IS GREATER



BASE PLATE SBP-3

A1 CONCRETE WALL SCHEDULE

NO SCALE

A2 CONCRETE REINFORCING BAR LAP SPlice SCHEDULE

NO SCALE

A3 STEEL COLUMN SCHEDULE

NO SCALE

CLIENT



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DRAWN BY: CHRIS B.

CHECKED BY: GERALD M.

SCALE:

DATE: MAY 1, 2007

SHEET TITLE

STRUCTURAL
SCHEDULES

S601

SYMBOL SCHEDULE	
	SPECIFIED MECHANICAL EQUIPMENT (SEE SCHEDULE)
 150	SPECIFIED REGISTER OR GRILLE & DESIGN CFM (SEE SCHEDULE)
	REFERENCE TO GENERAL NOTES FOR CLARIFICATION
6"Ø	DUCTWORK INSIDE DIMENSION (ROUND)
12/10	DUCTWORK INSIDE DIMENSIONS (RECTANGULAR - WIDTH/HEIGHT)
	SUPPLY AIR TOWARDS
	SUPPLY AIR AWAY
	RETURN AIR OR EXHAUST AIR TOWARDS
	RETURN AIR OR EXHAUST AIR AWAY
	DIRECTION OF AIR FLOW
3/4"-S	REFRIGERATION PIPE SIZE (SUCTION)
3/8"-L	REFRIGERATION PIPE SIZE (LIQUID)
	CEILING GRILLE
 VD	VOLUME DAMPER
 FD	FIRE DAMPER
 SD	SMOKE DETECTOR
	UNDERCUT DOOR
	SENSOR
	THERMOSTAT
	SWITCH

FURNACE												
MARK	MANUFACTURER CATALOG No.	CFM	INPUT BTU	OUTPUT BTU	V	PHASE	HP	S.P.	RPM	DRIVE	FILTER SIZE	NOTES
	TRAINE #TUX1B080A4421A	1000	80,000	74,000	115	1	1/2	0.5	1075	DIRECT	14"X20"X1"	(1)
(1) AFUE = 95; R-22; PROVIDE W/TXG0504HPD EVAPORATOR; CONCENTRIC VENT KIT, CONDENSER, EVAPORATOR AND FURNACE BY SAME MANUFACTURER; PROPANE.												

EXHAUST FAN SCHEDULE											
MARK	SERVES	CFM	STATIC PRESS.	HP	RPM	V	PHASE	SONES	WEIGHT	MAKE & MODEL	NOTES
	RESTROOM	120	0.15	50W	1200	120	1	1.7	22	COOK #5G-240	(4) (5) (6)
	VEHICLE SVC BAY	6,000	0.25	1.0	Ø14	208	3	16.6	244	COOK XLP 30	(1) (2) (3) (7) (8) (9)
(1) PROVIDE WALL FAN AS PACKAGED UNIT (2) CONTROL WITH CARBON MONOXIDE DETECTOR THROUGH ON/AUTO SWITCH (3) INNER LOCK LOUVER MOTOR WITH FAN MOTOR (4) CEILING GRILLE (5) COOK MCA-2 WALL CAP AND DAMPER						(6) CONTROL WITH MOTION DETECTOR (7) INTEGRAL EXHAUST SHUTTER (8) MOTORIZED INLET LOUVER. INTERLOCK LOUVER WITH FAN MOTOR SEE PLANS FOR LOCATION (9) SAFETY INLET SCREEN					

CONDENSING UNIT SCHEDULE											
MARK	MANUFACTURER CATALOG No.	SEN. MBH	AMB. TEMP.	V	PHASE	MCA	MOCP	FLA	SEER	SUCTION TEMP.	NOTES
	TRANE #21TB3024A100	14.4	46	208/230	1	12	20	8.1	13	45	(1)
(1) PROVIDE WITH FUSED DISCONNECT, CONNECT TO EVAPORATOR COIL IN F-1, ANTI-SHORT CYCLE, PROGRAMMABLE THERMOSTAT, HIGH/LOW PRESSURE SWITCH, FACTORY INSTALLED ACCUMULATOR, CRANKCASE HEATER, LOW AMBIENT COOLING, CONDENSER, EVAPORATOR AND FURNACE BY SAME MANUFACTURER.											

GAS-FIRED RADIANT HEATERS									
MARK	MODEL	INPUT BTUH	UNIT WEIGHT	AFUE RATING	GAS CONNECTION	ELEC. REQ.	AMPS	FLUE SIZE	REMARKS
	ROBERTS GORDON CO-RAY-VAC #E-10	80,000	55	80%	1/2"	120V/160	1.0	4"	(1) (2) (5)
<p>(1) ROBERTS GORDON #EP-100 VACUUM PUMP  1/8HP, 120 VOLT; PROVIDE FRESH AIR INTAKE; T-DAY PROGRAMMABLE THERMOSTAT; HEAT TREATED ALUMINIZED STEEL TUBE AND POLISHED ALUMINUM REFLECTOR; PROPANE GAS.</p> <p>(2) T-DAY PROGRAMMING THERMOSTAT.</p> <p>(5) PROVIDE ULTRA RAYVAC CONTROLLER 120V/20A.</p>									

MARK	TYPE	NECK/SIZE	SERVICE	MAX CFM	NOMINAL SIZE	REMARKS
1	CEILING DIFFUSER	6"ø	SUPPLY	176	12x12	PRICE #SCDA (1) (3) (4)
2	CEILING DIFFUSER	8"ø	SUPPLY	280	24x24	PRICE #SCDA (2) (3) (4)
3	NOT USED					
4	RETURN GRILLE	12" x 12"	RETURN	630	12x12	PRICE #BOD
5	TRANSFER GRILLE	12" x 12"	TRANSFER	N.A.	12x12	PRICE #BOD
L1	INLET LOUVER	48" x 66"	TRANSFER	N.A.	48X66	RUSKIN ELC-44SD (5)

(1) 12" x 12" FACE MODULE.

(2) 24" x 24" FACE MODULE.

(3) 3 CONCENTRIC CONES.

(4) SET FOR HORIZONTAL DISCHARGE.

(5) PROVIDE WITH TWO ACTUATORS
NO. 66D221, 115V, 150VA RUNNING,
1 VA HOLDING.

GENERAL NOTES CONTINUED

24. ALL ROOF MOUNTED EQUIPMENT CURBS FOR EQUIPMENT PROVIDED BY THE MECHANICAL CONTRACTOR SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
25. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
26. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC. SHALL BE FIRE STOPPED WITH A PRODUCT SIMILAR TO 3M OR APPROVED EQUAL.
27. ALL AIR CONDITIONING CONDENSATE DRAIN LINES FROM EACH AIR HANDLING UNIT AND ROOFTOP UNIT SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET, WITH 1" TRAP AND PIPED TO NEAREST DRAIN. SEE DETAILS SHOWN ON THE DRAWINGS OR THE CONTRACT SPECIFICATIONS FOR DEPTH OF AIR CONDITIONING CONDENSATE TRAP.
28. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION.
29. DO NOT INSTALL EXPOSED PIPING ABOVE OR WITHIN THE CODE REQUIRED WORKING CLEARANCES OF ANY ELECTRICAL PANEL, BOARD OR SWITCH GEAR (30" WIDE OR THE WIDTH OF THE PANEL, WHICHEVER IS GREATER AND 36" IN FRONT - FLOOR TO CEILING) COORDINATE WITH ELECTRICAL CONTRACTOR.

GENERAL NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK (HVAC AND PLUMBING) ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
3. INSTALL ALL MECHANICAL EQUIPMENT AND AFFURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
4. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
5. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO AND WITHIN 50 FEET OF ISOLATED EQUIPMENT (EXCEPT AT BASE ELBOW SUPPORTS AND ANCHOR POINTS) THROUGHOUT MECHANICAL EQUIPMENT ROOMS.
6. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES UNLESS OTHERWISE INDICATED.
7. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
8. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
9. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.
10. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.
11. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARDS.
12. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
13. REINFORCEMENT, DETAILING, AND PLACEMENT OF CONCRETE SHALL CONFORM TO ASTM 315 AND ACI 318. CONCRETE SHALL CONFORM TO ASTM C94. CONCRETE WORK SHALL CONFORM TO ACI 318, PART ENTITLED "CONSTRUCTION REQUIREMENTS." COMPRESSIVE STRENGTH IN 28 DAYS SHALL BE 4000 PSI. TOTAL AIR CONTENT OF EXTERIOR CONCRETE SHALL BE BETWEEN 5 AND 1 PERCENT BY VOLUME. SLUMP SHALL BE BETWEEN 3 AND 4 INCHES. CONCRETE SHALL BE CURED FOR 7 DAYS AFTER PLACEMENT.
14. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
15. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 16 OF THE SPECIFICATION.
16. CONCRETE HOUSEKEEPING PADS TO SUIT MECHANICAL EQUIPMENT SHALL BE SIZED AND LOCATED BY THE MECHANICAL CONTRACTOR. MINIMUM CONCRETE PAD THICKNESS SHALL BE 6 INCHES. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 6 INCHES ON EACH SIDE. CONCRETE HOUSEKEEPING PADS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE SIZE AND LOCATION OF CONCRETE HOUSEKEEPING PADS WITH GENERAL CONTRACTOR.
17. WHEN MECHANICAL WORK (HVAC, PLUMBING, SHEET METAL, FIRE PROTECTION, ETC.) IS SUBCONTRACTED, IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDES A PARTICULAR ITEM OF THE MECHANICAL CONTRACT OR WHICH CONTRACTOR PROVIDES FINAL CONNECTION FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE MECHANICAL CONTRACTOR, WHOSE DECISION SHALL BE FINAL.
18. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
19. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
20. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT. ACCESS PANELS SHALL BE TURNED OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
21. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
22. ALL DUCTWORK, PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.
23. MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT BE SUPPORTED FROM METAL DECK.

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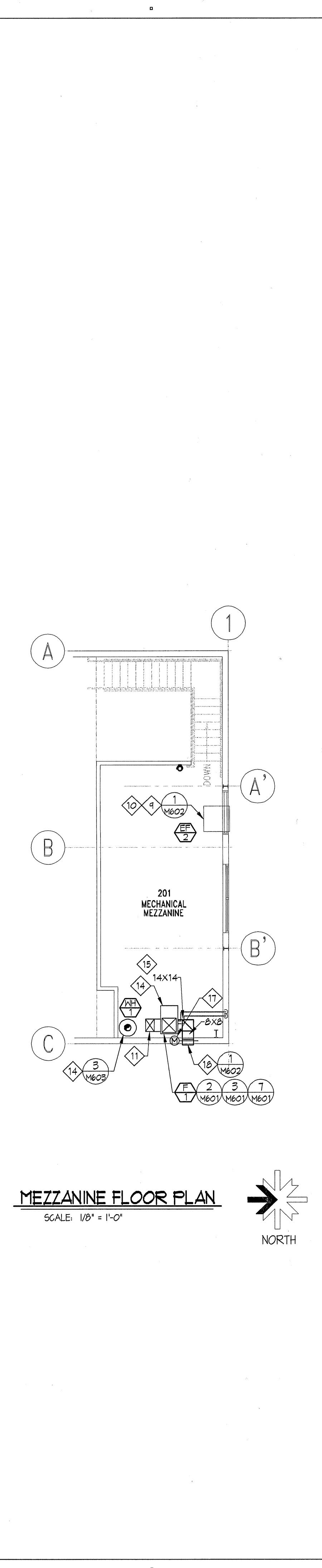
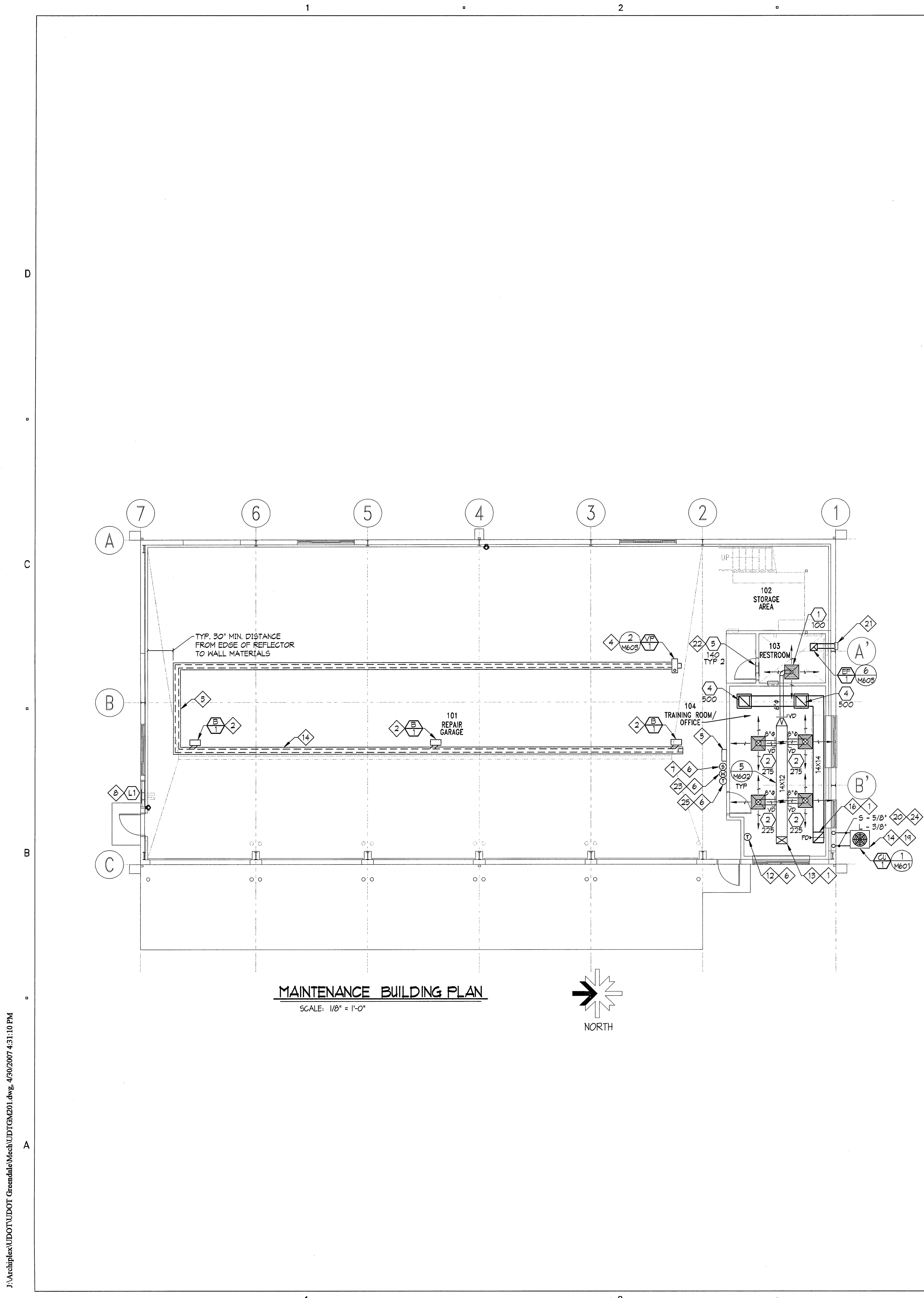
CLIFFORD DEE HOLMES
04/30/07
NUMBER 309570
STATE OF UTAH

[illegible]

DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	LCM
CHECKED BY:	CDW
SCALE:	NONE
DATE:	MAY 1, 2007

MECHANICAL SYMBOLS AND SCHEDULES

MOO 1



KEY NOTES

1	PROVIDE FIRE DAMPER AND DUCT ACCESS DOOR.
2	4" COMBUSTION AIR THROUGH ROOF.
3	MOUNT RADIANT HEATERS PARALLEL WITH ROLL UP DOORS (TYPICAL).
4	4" TYPE B FLUE THROUGH ROOF. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
5	RADIANT HEAT SYSTEM CONTROL PANEL. SEE SCHEDULE.
6	MOUNT 5'-0" AFF.
7	CARBON MONOXIDE DETECTOR. INTERLOCK THROUGH AUTO/ON SWITCH WITH EXHAUST FAN EF-2.
8	48X66 COMBINATION LOUVER, ALUMINUM RUSKIN ELC445D, PROVIDE WITH ACTUATOR. INTERLOCK ACTUATOR WITH EF-2 REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.
9	REFERENCE ARCH. DRAWINGS FOR LOCATION.
10	36" X 36" RUSKIN EFL115 LOUVER. LOUVER COLOR BY ARCHITECT.
11	DROP 14" X 12" DUCT DOWN THROUGH FLOOR.
12	THERMOSTAT TO CONTROL F-1.
13	14" X 12" DUCT UP THROUGH MEZZANINE FLOOR.
14	MECHANICAL CONTRACTOR SHALL COORDINATE ANY/ALL CHANGES TO SUPPLIED EQUIPMENT ELECTRICAL WITH ELECTRICAL CONTRACTOR.
15	14" X 14" RETURN DOWN THROUGH FLOOR.
16	14" X 14" RETURN DUCT UP THROUGH MEZZANINE FLOOR.
17	INTERLOCK DAMPER MOTOR WITH F-1.
18	16" X 16" O.S.A. LOUVER RUSKIN FFL8011DD, PROVIDE INSECT SCREEN AND BALANCING DAMPER. SET DAMPER TO 200 CFM.
19	MOUNT CONDENSING UNIT ON CONCRETE PAD. PAD BY THIS CONTRACTOR.
20	REFRIGERATION LINE SIZES ARE FOR BIDDING PURPOSES ONLY. PROVIDE REFRIGERATION LINE SIZES PER MANUFACTURER'S RECOMMENDATIONS.
21	EXHAUST FAN WALL CAP. REFER TO SCHEDULE.
22	MOUNT TRANSFER GRILLE ABOVE DOOR WITH CHANNEL BORDER ON BOTH SIDES OF THE WALL.
23	MANUAL OVERRIDE SWITCH LOCATION FOR EF-2. SEE ELECTRICAL DRAWINGS.
24	RISE IN EXTERIOR WALL WITH REFRIGERATION PIPING TO MEZZANINE LEVEL.
25	THERMOSTAT FOR RADIANT HEAT SYSTEM.

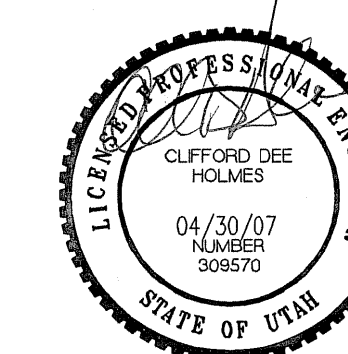
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	05/01/07	CONSTRUCTION DOCUMENTS
MARK	DATE	DESCRIPTION
DFCM PROJECT NO:		07029900
ARCHIPLEX PROJECT NO:		0708.0
DRAWN BY:		LCM
CHECKED BY:		CDW
SCALE:		1/8"=1'-0"
DATE:		MAY 1, 2007

SHEET TITLE

MECHANICAL
FLOOR PLAN

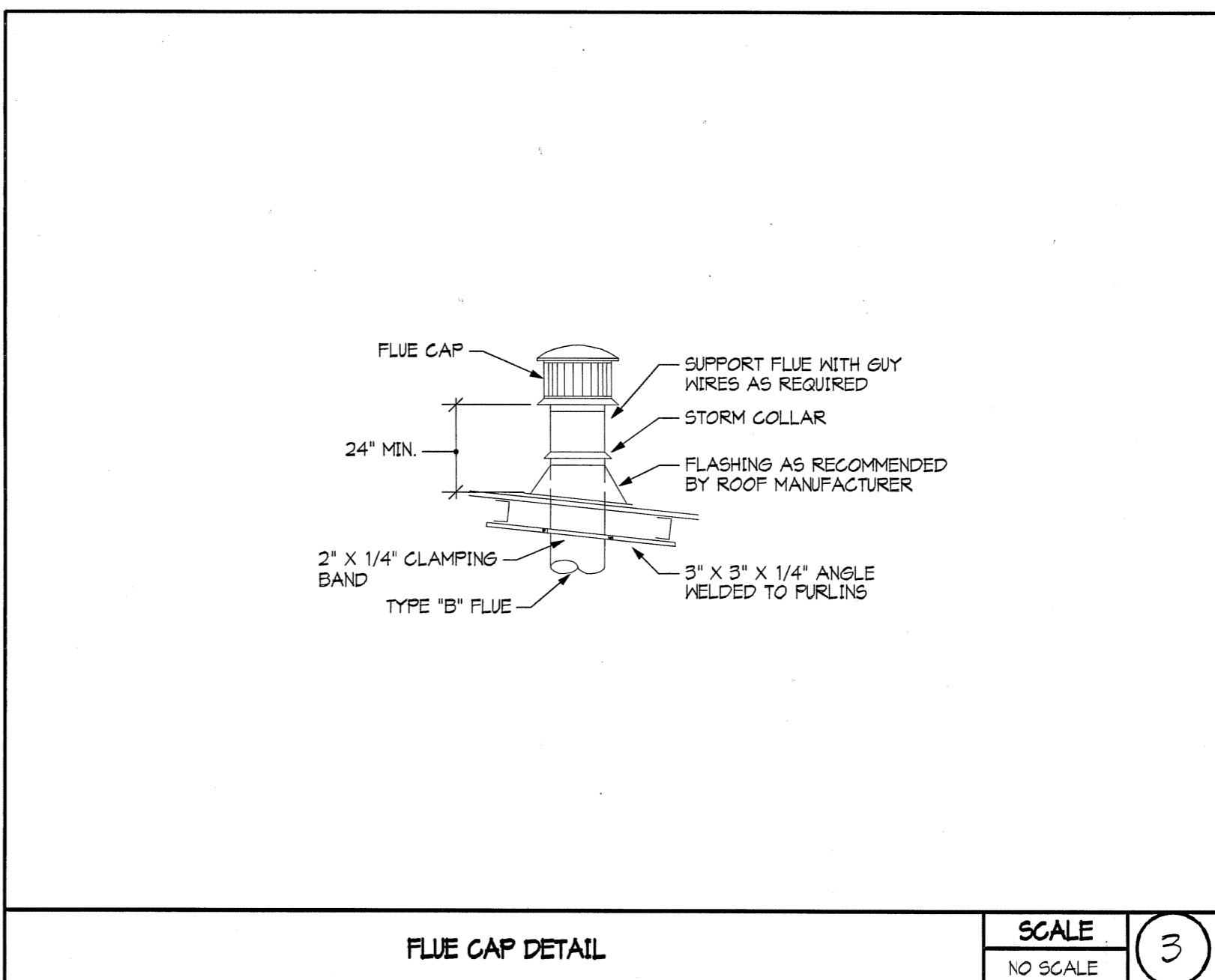
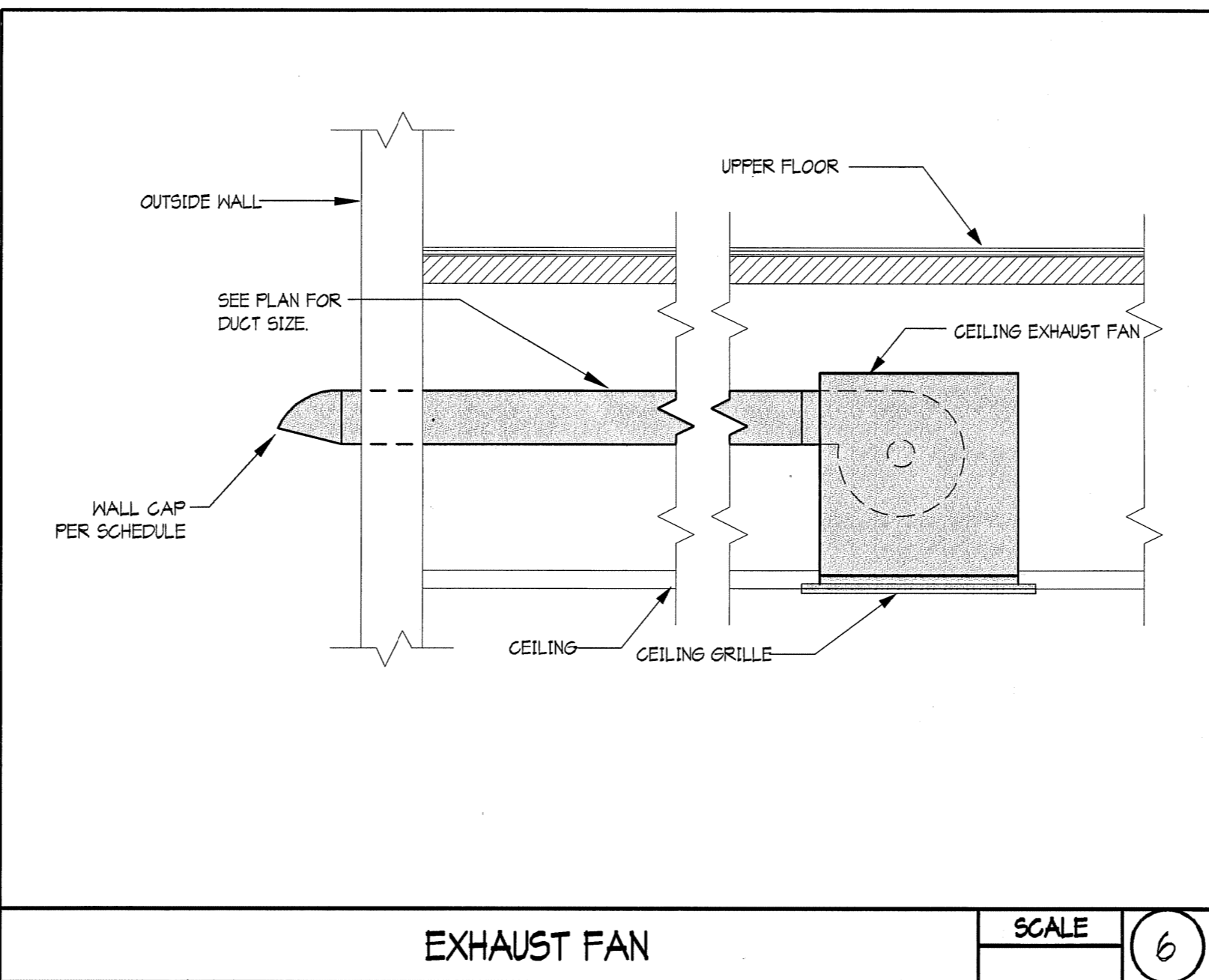
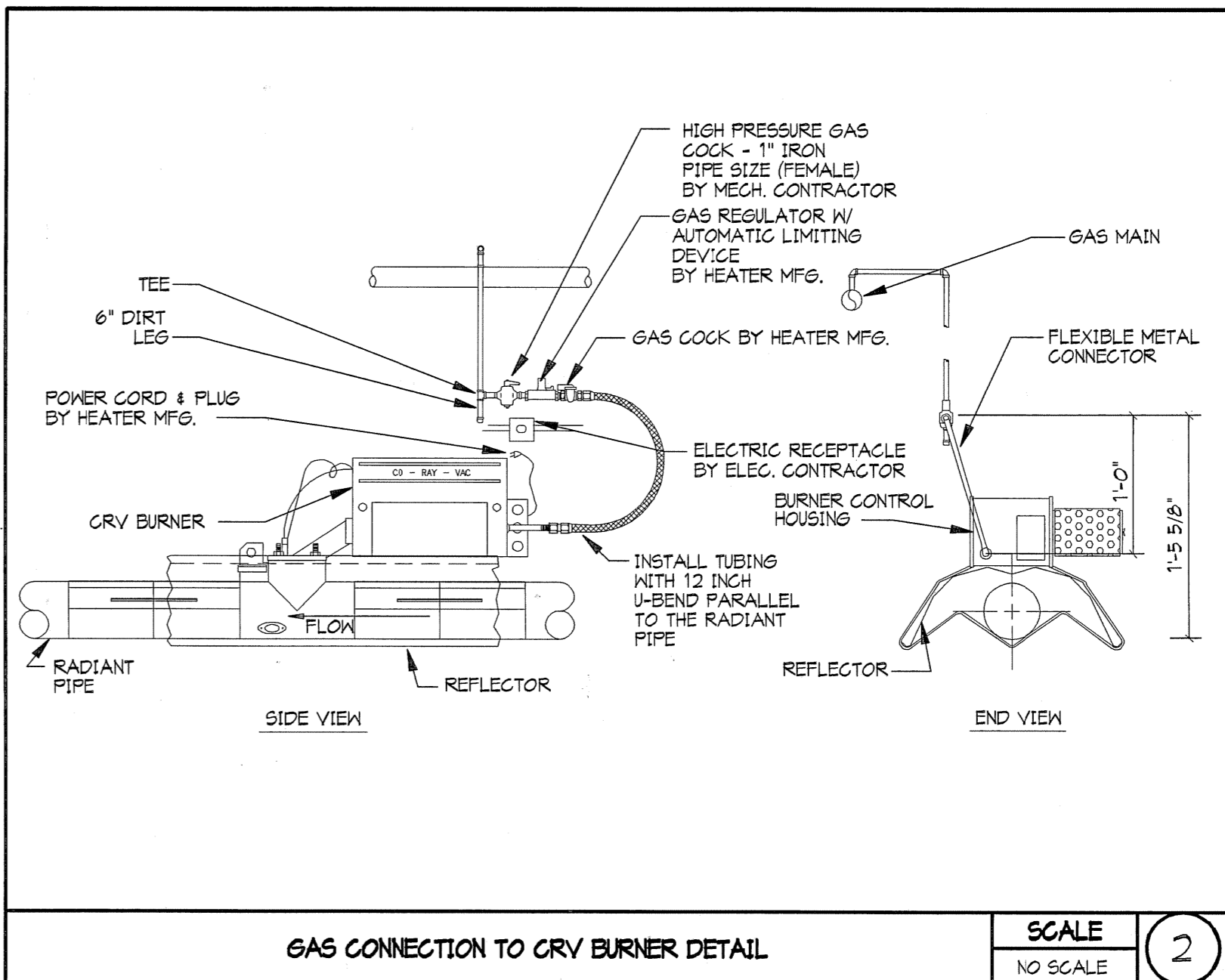
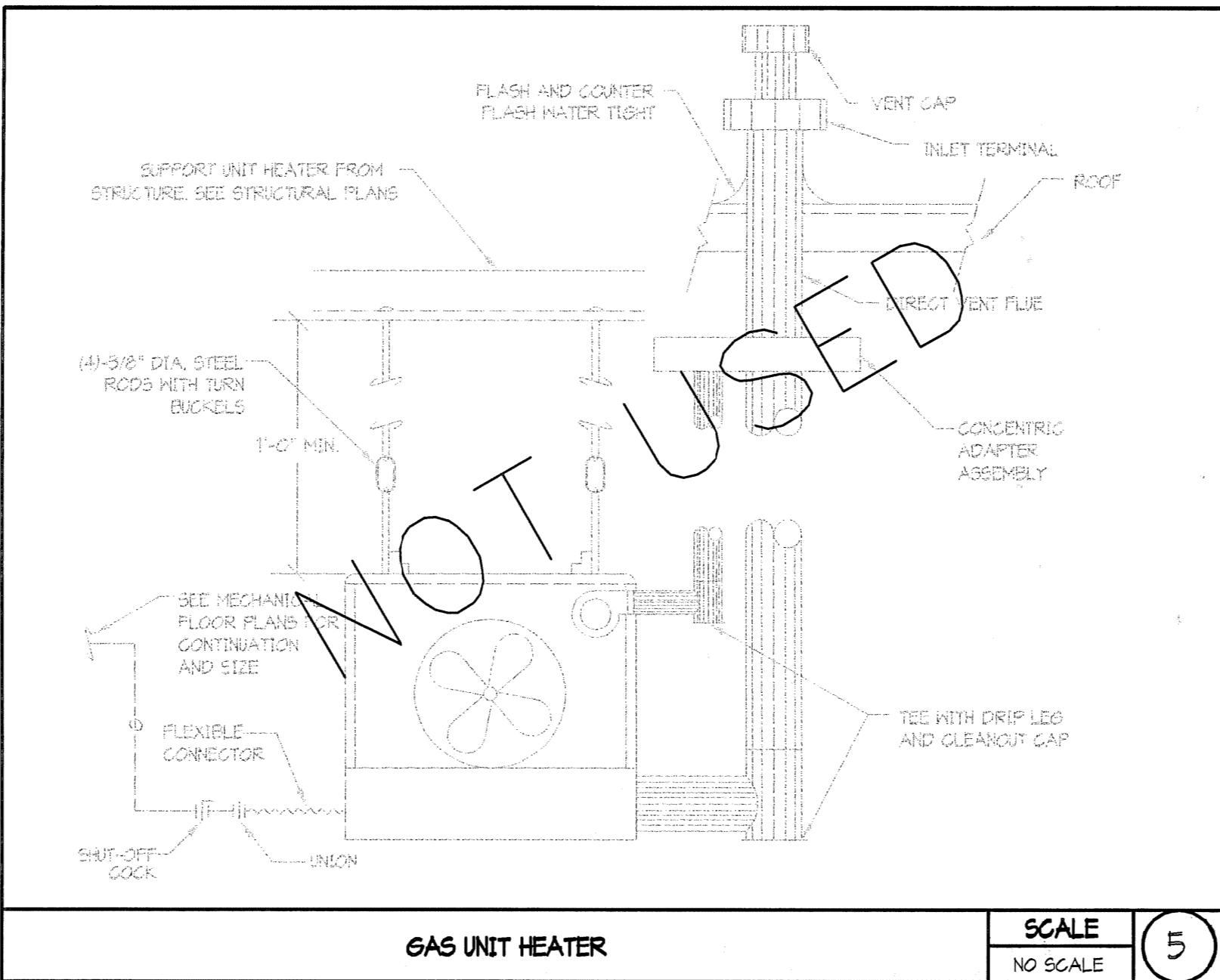
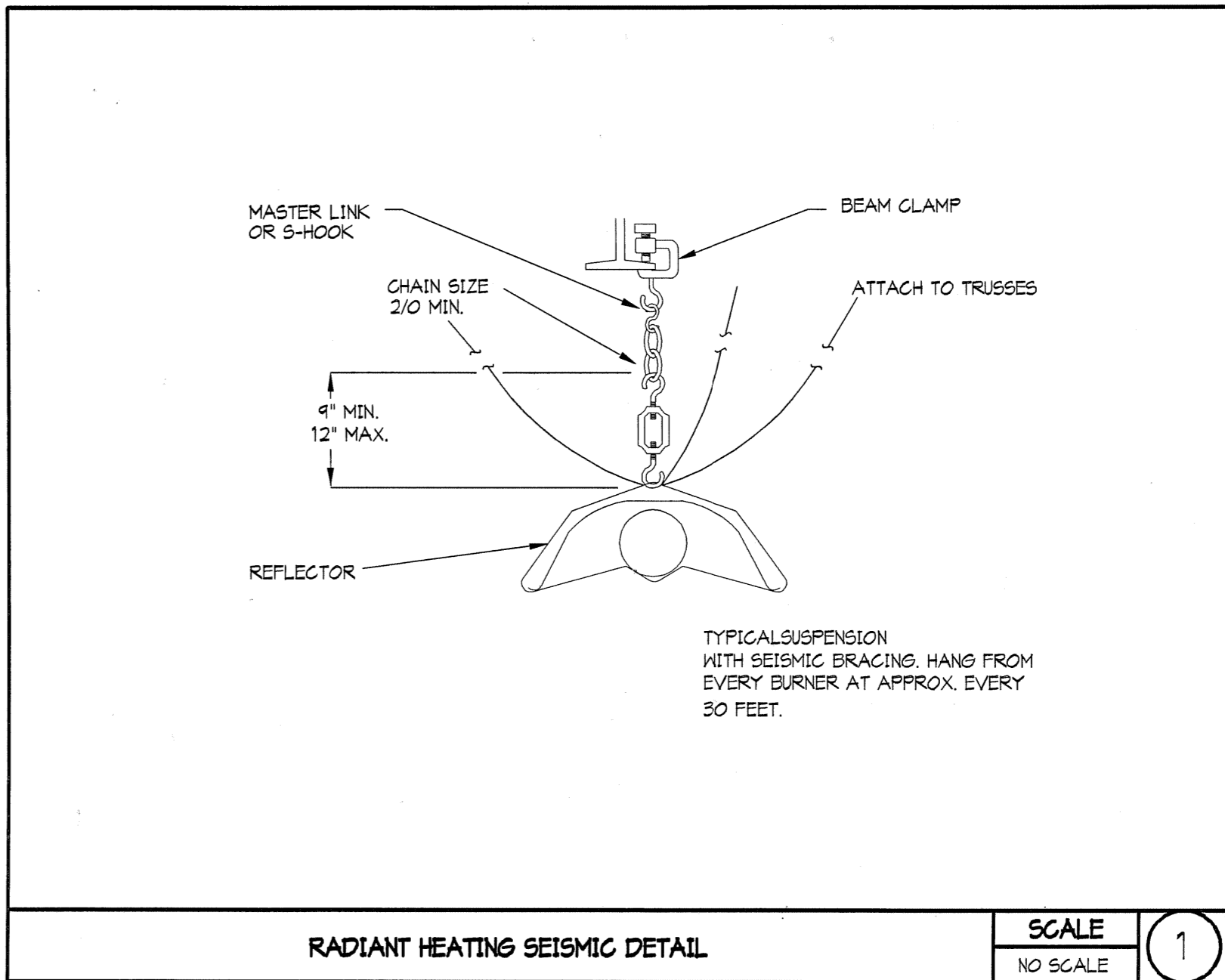
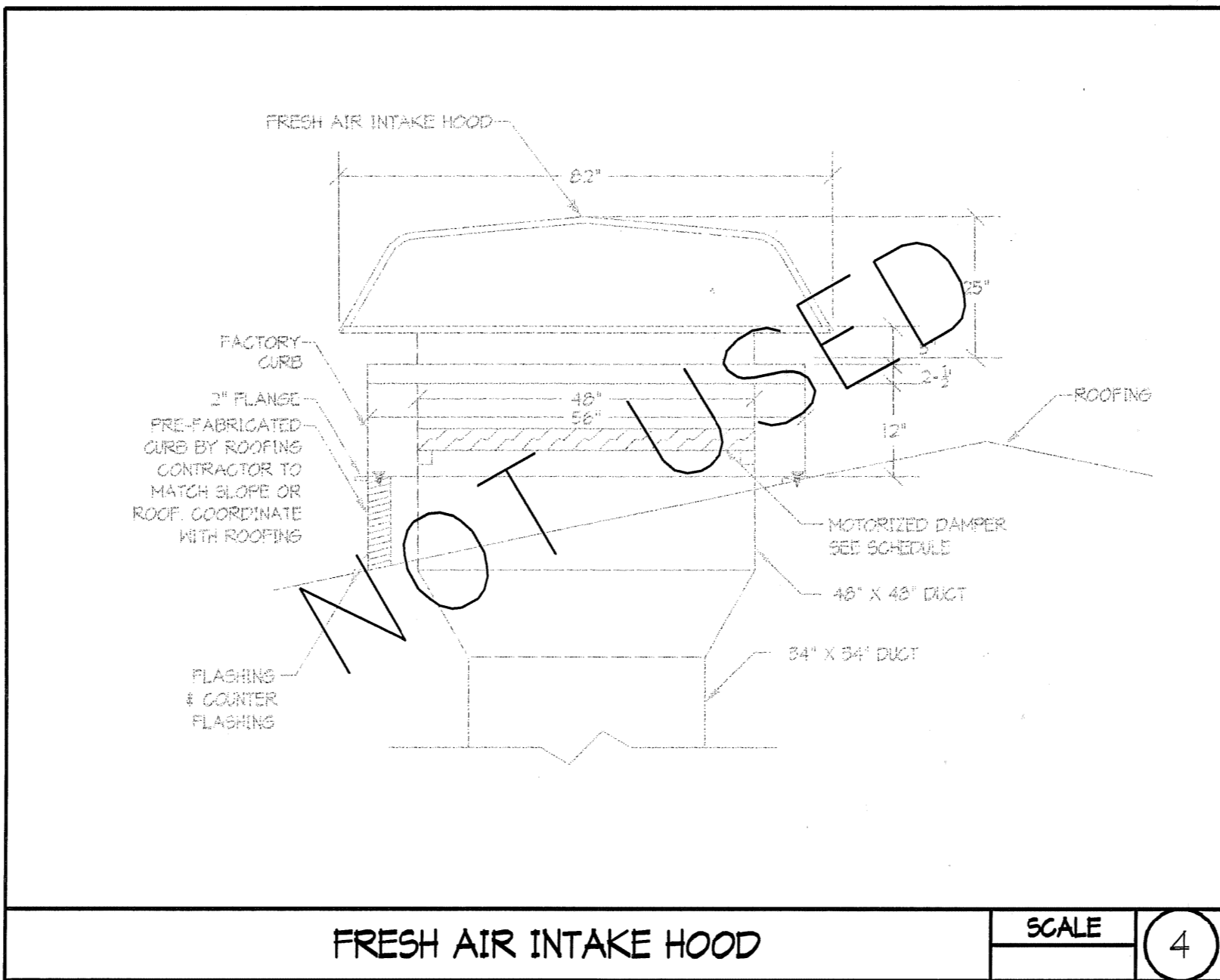
M201



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M602



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DRAWN BY: LCM
CHECKED BY: CDW
SCALE: NONE
DATE: MAY 1, 2007

SHEET TITLE

**MECHANICAL
DETAILS**

M603

GENERAL NOTES TO ALL SHEETS

- INSULATE PIPING WITH FIBERGLASS PIPE COVERING WITH ALL SERVICE JACKET AND SELF-CAP SEAL. FITTINGS SHALL BE MITERED PIPING COVERING OF GLASS FIBER MOLDED FITTINGS FOR USE IN A RETURN AIR FLENUM. THERMAL CONDUCTIVITY SHALL BE A MAXIMUM OF .25/INCH THICKNESS AT 75°F.
- EACH TRADE IS RESPONSIBLE THEIR OWN FIRE CAULKING.
- HOUSEKEEPING PADS FOR ALL EQUIPMENT IS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
- DIVISION 15 SUBMIT TO ENGINEER ALL AS-BUILTS OF BUILDINGS MECHANICAL AND PLUMBING SYSTEMS FROM TO JOB COMPLETION AND FINAL PAYMENT.

GENERAL NOTES TO ALL SHEETS

- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- RUN ALL SOIL WASTE AND VENT PIPING WITH 2% MINIMUM GRADE UNLESS OTHERWISE NOTED. HORIZONTAL VENT PIPING SHALL BE GRADED TO DRIP BACK TO THE SOIL OR WASTE PIPE BY GRAVITY.
- ELEVATIONS AS SHOWN ON THE DRAWINGS ARE TO THE CENTERLINE OF ALL PRESSURE PIPING AND TO THE INVERT OF ALL GRAVITY PIPING.
- ADJUST SEWER INVERTS TO KEEP TOPS OF PIPE IN LINE WHERE PIPE SIZE CHANGES.
- MAINTAIN A MINIMUM OF 6'-0" OF GROUND COVER OVER ALL UNDERGROUND WATER MAINS AND A MINIMUM OF 3'-0" OF GROUND COVER OVER ALL UNDERGROUND SEWERS AND DRAINS.
- PROVIDE SHUTOFF VALVES IN ALL DOMESTIC WATER PIPING SYSTEM BRANCHES IN WHICH BRANCH PIPING SERVES TWO OR MORE FIXTURES.
- UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE, WITH SPACE FOR INSULATION IF REQUIRED.
- INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNION, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
- WHERE DOMESTIC COLD AND HOT WATER PIPING DROPS INTO A PIPE CHASE, THE SIZE SHOWN FOR THE PIPE DROPS SHALL BE USED TO THE LAST FIXTURE.
- INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
- ALL PIPING SHALL CLEAR DOORS AND WINDOWS.
- ALL PIPING SHALL GRADE TO LOW POINTS. PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.
- UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.
- ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.
- ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE FULL SIZE OF PIPE BEFORE REDUCING SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.
- PROVIDE ALL PLUMBING FIXTURES AND EQUIPMENT WITH ACCESSIBLE STOPS.
- UNLESS OTHERWISE NOTED, DRAINS SHALL BE INSTALLED AT THE LOW POINT OF ROOFS, AREAWAYS, FLOORS, ETC.
- PROVIDE CLEANOUTS IN SANITARY AND STORM DRAINAGE SYSTEMS AT ENDS OF RUNS, AT CHANGES IN DIRECTION, NEAR THE BASE OF STACKS, EVERY 100 FEET IN HORIZONTAL RUNS AND ELSEWHERE AS INDICATED.
- ALL CLEANOUTS SHALL BE FULL SIZE OF PIPE FOR PIPE SIZES 6 INCHES AND SMALLER AND SHALL BE 6 INCHES FOR PIPE SIZES LARGER THAN 6 INCHES.
- ALL BALANCING VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).
- ALL VALVES SHALL BE INSTALLED SO THAT VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.
- ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE FLEXIBLE CONNECTION IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE OR AS INDICATED ON THE DRAWINGS.
- DO NOT INSTALL EXPOSED PIPING ABOVE OR WITHIN THE CODE REQUIRED WORKING CLEARANCES OF ANY ELECTRICAL PANEL BOARD OR SWITCH GEAR (30" WIDE OR THE WIDTH OF THE PANEL, WHICHEVER IS GREATER AND 36" IN FRONT - FLOOR TO CEILING) COORDINATE WITH ELECTRICAL CONTRACTOR.
- COORDINATE ALL AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.
- DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
- THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH NEW ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE.
- THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILAR WITH SITE CONDITIONS.
- ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE BUILDING CODES, MECHANICAL CODES AND PLUMBING CODES.
- THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
- ALL DOMESTIC COLD AND DOMESTIC HEATING WATER PIPING SHALL BE TYPE "L" COPPER. ALL WASTE AND VENT PIPING SHALL BE CAST IRON ALL ROOF AND OVERFLOW DRAINAGE PIPING TO BE CAST IRON.
- PROVIDE INSULATION FOR THE FOLLOWING: A. DOMESTIC HOT WATER PIPING: 1" THICK FOR ALL PIPE SIZES. B. DOMESTIC COLD WATER PIPING: 1/2" THICK FOR PIPE SIZES 1/2" TO 6". (PROVIDE CONTINUOUS VAPOR BARRIER.)

PLUMBING FIXTURE SCHEDULE

EQUIPMENT AND INSTALLATION BY PLUMBING CONTRACTOR PROVIDE SPECIFIED ITEMS OR APPROVED EQUALS. (REFER TO SPECIFICATIONS)					
MARK	DESCRIPTION	W	V	CH	HW
(P1)	WATER CLOSET (ADA) - FLOOR MOUNTED TANK TYPE, CRANE - HYMONT #1055, 18 INCH RIM HEIGHT, MAXIMUM WATER USAGE OF 1.6 GALLONS PER FLUSH, TANK TO HAVE PRESSURE ASSISTED FLUSH SEAT - PROVIDE SPLIT FRONT TYPE WITH CHECK HINGE, BEMIS #1455C PROVIDE CHROME PLATED SUPPLY AND STOP.	4"	2"	1/2"	-
(P2)	LAVATORY - WALL MOUNTED, CRANE #1412V, HANDICAP TYPE, VITREOUS CHINA, SELF SUPPORTING FIXTURE, SIZE 24"x21", FAUCET AND DRAIN - SYMMONS 5-6080 WITH DRAIN GRID, BATTERY OPERATED WITH BATTERY INSIDE BODY OF FAUCET, PROVIDE CHROME PLATED SUPPLIES AND STOPS. DEARBORN 11 GA TUBE 1" TRAP, CHROME PLATED, FITTINGS AND TRAP TO BE INSULATED TO MEET ADA REQUIREMENTS PROVIDE MCGUIRES PROXIRAP, PROVIDE WITH CARRIER.	1 1/2"	1 1/2"	1/2"	1/2"
(P3)	UTILITY SINK - ELKAY ES66 2520-C, WALL MOUNTED 304 14 GAUGE STAINLESS STEEL SERVICE SINK WITH HOSE THREAD, VACUUM BREAKER, WALL BRACKET AND PAIL HOOK SPOUT AND LK175 CAST IRON P-TRAP.	3"	2"	3/4"	3/4"
(P4)	NOT USED	-	-	-	-
(P5)	NOT USED	-	-	-	-
(P6)	2 COMPARTMENT SINK - JUST POL-ADA-2293-A-GR, STAINLESS STEEL DOUBLE COMPARTMENT, SELF RIMMING, SIZE 22"x33" OD WITH TWO COMPARTMENTS THAT ARE 16"x14"x8" DEEP. MATERIAL - 16 GAUGE TYPE 304 STAINLESS STEEL, SEAMLESS DIE DRAWN, INTERIOR SURFACES POLISHED TO A NON-POROUS FINISH. UNDERSIDE TO BE FULLY COATED INSULATED FOR SOUND AND CONDENSATION REDUCTION. FAUCET AND DRAIN - GOOSENECK WITH SPRAY, JUST JWF-201 WITH TEAR DROP HANDLES AND JB-H4 DRAIN OR APPROVED EQUAL. PROVIDE WITH CHROME PLATED SUPPLY AND STOPS. DEARBORN 11 GA TUBE 1" TRAP, CHROME PLATED.	2"	1 1/2"	1/2"	1/2"
(P7)	URINAL - WALL MOUNTED URINAL, CRANE #1147, 1.0 GPF, VITREOUS CHINA, MOUNT 11" A.F.F. TO MEET ADA REQUIREMENTS, PROVIDE WITH SLOAN #2186 G2 OPTIMA PLUS BATTERY OPERATED FLUSHMETER, FLUSHMETER TO HAVE MANUAL OVERRIDE (URINAL SHALL FIT SPACE AVAILABLE.) PROVIDE CARRIER.	2"	1 1/2"	3/4"	-
(P8)	TRAP PRIMER - TRAP PRIMER MIFAB #500 COMPLETE WITH MIFAB MI-GAP AIR GAP FITTING AND STAINLESS STEEL ACCESS DOOR.	-	-	1/2"	-
(P9)	DRINKING FOUNTAIN - ADA COMPLIANT WATER COOLER, 12 GPH, SEMI-RECESSED, 115 VOLTS, 400 WATTS, 4.8 AMPS, ELKAY #ESRVC-15.	2"	1 1/2"	1/2"	-
(TD)	TRENCH DRAIN - J-TRENCH DRAIN JR. SMITH #9431, COMPLETE WITH HEAVY DUTY FRAME, LOAD CLASS C CAST IRON SLOTTED GRATE, FULLY SLOPED CHANNELS.	3"	2"	-	-
(HB1)	HOSE BIB - SINGLE SPOUT WITH HOSE CONNECTION. PROVIDE WITH VACUUM BREAKER AND METAL HANDLE (PLASTIC HANDLES ARE NOT ACCEPTABLE). CHICAGO MODEL NO. 243 WITH E21 VACUUM BREAKER.	-	-	3/4"	-
(NH1)	WALL HYDRANT - MADE #8600/175, NON-FREEZE WALL HYDRANT WITH NICKEL BRONZE BOX, COMPLETE WITH CHROME PLATED LOCKING COVER AND BOX WITH INTEGRAL VACUUM BREAKER. WALL HYDRANT TO BE SIZED FOR WALL THICKNESS.	-	-	3/4"	-
(FD1)	FLOOR DRAIN - FLOOR DRAIN JR. SMITH #2005-A, WITH NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION AND DEEP SEAL TRAP.	3"	1 1/2"	-	-
(FD2)	FLOOR DRAIN - SMITH #2340 NB, FLOOR DRAIN WITH SEDIMENT BUCKET, DEEP SEAL P-TRAP, AND NICKEL BRONZE TOP.	4"	2"	-	-
(FS1)	FLOOR SINK - FLOOR SINK JR. SMITH #3020, COMPLETE WITH ACID RESISTANT COATED INTERIOR AND POLISHED ALUMINUM DOME BOTTOM STRAINER.	2"	2"	-	-

PLUMBING SYMBOL SCHEDULE

SYMBOL	ABBREVIATION	DESCRIPTION
---	CH	COLD WATER LINE
---	HH	HOT WATER LINE
---	HHR	HM REGULATION LINE
---	CH	CH LINE UNDER FLOOR
---	HH	HH LINE UNDER FLOOR
---	HHR	HHR LINE UNDER FLOOR
---	SAN	SANITARY WASTE LINE (BELOW FLOOR OR GRADE)
---	SAN	SANITARY WASTE LINE (ABOVE FLOOR OR GRADE)
---	SAN/E	EXISTING SANITARY WASTE LINE
---	V	VENT LINE
---	COND	A/C CONDENSATE LINE (SIZED TO DISCHARGE)
---	UP	PIPE RISER UP (VIEWED CEILING TO FLOOR)
---	DN	PIPE RISER DOWN (VIEWED CEILING TO FLOOR)
---	SOV / 6V	SHUT-OFF VALVE / GATE VALVE
---	SOV / 6V	SHUT-OFF VALVE / BALL VALVE
---	SOV / 6V (NC)	SOV / 6V (NORMALLY CLOSED)
---	SOV / 6V (NC)	SOV / 6V (NORMALLY CLOSED)
---	SOV / 6V	SHUT-OFF VALVE / GAS COCK
---	CK V	CHECK VALVE
---	UN	UNION
---	PRV	PRESSURE REGULATING VALVE
---	PLT	PRESS. & TEMP. RELIEF VALVE
---	STR	Y-STRAINER
---	PR GA	PRESSURE GAUGE
---	MTR MTR	WATER METER
---	GAZ MTR	GAS METER
---	RN	RAIN WATER LINE (ABOVE FLOOR)
---	G	NATURAL GAS LINE
---	LP	LIQUID PROPANE LINE
---	F	FIRE SPRINKLER LINE
---	SW	SOFT WATER LINE
---	CA	COMPRESSED AIR LINE
---	CA	COMPRESSED AIR LINE (BELOW FLOOR)
---	DM	DEDICATED WASTE LINE
---	SOV IN YB	SHUT-OFF VALVE IN YARD BOX
---	FI	FIRE HYDRANT
---	FDC	FIRE DEPT. CONNECTION
---	MMS	WATER MOTOR GONG
---	PV	POINT OF CONNECTION
---	POC	POINT OF CONNECTION
---	N	UTILITY WATER MAIN - SIZE
---	SAN	SANITARY SEWER MAIN - SIZE
---	G	UTILITY GAS MAIN - SIZE
---	SD	UTILITY STORM DRAIN - SIZE
---	GC	AIR CONNECTION

ABBREVIATION SCHEDULE

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A/C	AIR CONDITIONING	HB	HOSE BIBB
ASR	AUTOMATIC SPRINKLER RISER	HD	HUB DRAIN
AVG	AVERAGE	HTR	HEATER
BFP	BACKFLOW PREVENTER	IE	INVERT ELEVATION
BTU	BRITISH THERMAL UNITS	IN	INDIRECT WASTE
CB	CATCH BASIN	MAX	MAXIMUM
CFH	CUBIC FEET PER HOUR	MHB	THOUSAND BTU'S PER HOUR
CL	CENTERLINE	MC	MECHANICAL CONTRACTOR
CO	CLEANOUT	MECH	MECHANICAL
CONC	CONCRETE	MH	MANHOLE
CONTR	CONTRACTOR	MIN	MINIMUM
COTG	CLEANOUT TO GRADE	(N)	NEW
DN	DOWN	NC	NOT IN CONTRACT
DS	DOWNSPOUT	OD	OVERFLOW DRAIN
(E)	EXISTING	PC	PLUMBING CONTRACTOR
(ER)	EXISTING TO BE REMOVED	PV	POINT OF CONNECTION
EC	ELECTRICAL CONTRACTOR	POC	POINT OF CONNECTION
ELEV	ELEVATION	PSI	POUNDS PER SQUARE INCH
EXIST	EXISTING	PSIL	PSI LOSS
FCO	FLOOR CLEANOUT	RD	ROOF DRAIN
FD	FLOOR DRAIN	REG	REGULATOR
FE	FIRE EXTINGUISHER	REQD	REQUIRED
FE	FIRE CABINET	R1 & C	ROUGH-IN AND CONNECT
FEC	FLOOR HOSE BOX	STA	STATION
FHB	FIRE HOSE AND CABINET	VEL	VELOCITY
FL	FLOOR	VTR	VENT THRU ROOF
FPS	FEET PER SECOND	W	WITH
FS	FLOOR SINK	WCO	WALL CLEANOUT
FTHD	FEET OF HEAD	WF	WALL FAUCET
FTR	FLUE THRU ROOF	WTR	WATER
FU	FIXTURE UNIT		
GC	GENERAL CONTRACTOR		
GPM	GALLONS PER MINUTE		
GR	GRADE		

GAS FIRED WATER HEATER SCHEDULE

MARK	MFR. CATALOG NO.	SERVICE	CAPACITY GALLONS	FUEL GAS	INPUT BTU	REC OV GPH	TANK SIZE	TEMP F IN/OUT	FLUE SIZE	REMARKS
(WH)	BRADFORD WHITE #M-1-40TEEN (LP)	HOT WATER	40	PROPANE	40,000	41	20"	40°/140°	2"	(1) (2)

- PROVIDE WITH EXPANSION TANK. A.O. SMITH-AMTROL ST-5-2 GAL, 8'x1'2'H
- INSTALL PER MANUFACTURERS REQUIREMENTS

AIR COMPRESSOR

MARK	DUTY	ACFM @ 135 PSI	RECEIVER CAP. (GAL)	ELECTRICAL		MANUFACTURER & MODEL NO
				VOLT/PH	HP	
(AC)	SHOP AIR	10.3	60	230/1	3.0	SPEED AIR WM GRANSER # 4B236
(CA)	COMPRESSED AIR CONNECTION					

* START/STOP, WITH PROVISION FOR NO LOAD START. INCLUDE MAGNETIC STARTER

CLIENT



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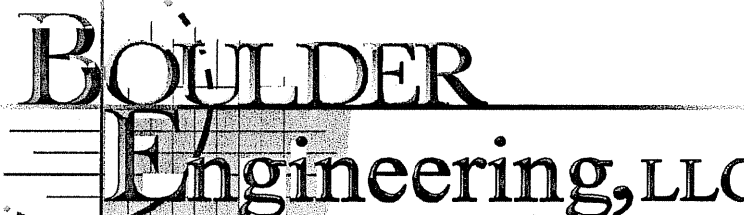
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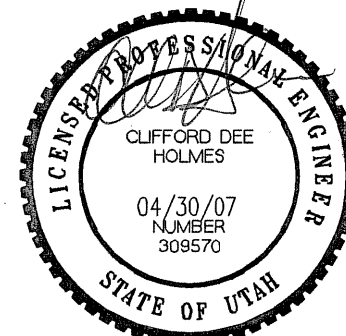
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ARCHIPLEX PROJECT NO: 0708.01

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CHECKED BY: CDW

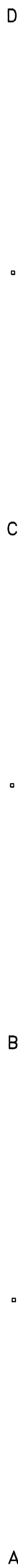
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DATE: MAY 1, 2007

SHEET TITLE

PLUMBING
SYMBOLS AND
SCHEDULES

P001



- 1 SEE SITE DRAWINGS FOR CONTINUATION.
- 2 SEE CIVIL DRAWINGS FOR INVERT ELEVATION. GENERAL CONTRACTOR IS TO COORDINATE WITH HIS SUBS TO VERIFY SITE SANITARY SEWER AND BUILDING SANITARY SEWER PIPE WILL PROPERLY CONNECT PRIOR TO INSTALLING ANY SANITARY PIPE IN THE SITE OR BUILDING. IF A PROBLEM EXISTS, THE CONTRACTOR IS TO INFORM THE ARCHITECT OF THE PROBLEM. PRIOR TO INSTALLING ANY PIPE, IF PIPE IS INSTALLED AND A PROBLEM ARISES, THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM ANY WORK REQUIRED SUCH THAT THE SANITARY PIPE CAN BE INSTALLED CORRECTLY TO CODE STANDARDS.
- 3 VENTS FROM SAND/OIL SEPARATORS MAY BE COMBINED AFTER THEY ARE 10' ABOVE FLOOD RIM OF SEPARATOR. THEN VENTS MAY BE CONNECTED TO VEHICLE STORAGE BAY WASTE SYSTEM VENT PIPE.
- 4 PROVIDE PVC COVER OVER INSULATION TO 8'-0" AFF. MOUNT HB-1 3'-0" AFF.
- 5 ROUTE PIPING ABOVE STRUCTURE.
- 6 ALL WASTE PIPING 3" AND GREATER TO SLOPE 1/8" PER FOOT.
- 7 PIPE SLEEVES REQUIRED ON THIS PROJECT. IF CONTRACTOR FAILS TO INSTALL PIPE SLEEVES, THE CONTRACTOR SHALL REMOVE PIPE, INSTALL SLEEVE AND REINSTALL PIPE AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 8 CAP LINE FOR FUTURE EXPANSION.
- 9 AT BUILDING EXTERIOR PROVIDE PROPANE SHUT-OFF VALVE AT 24" A.F.F. PROVIDE PRESSURE REGULATOR TO REGULATE PRESSURE FROM 10 PSI TO 2 PSI. TURN, PENETRATE BUILDING WALL, AND RISE TO ROOF TRUSSES, SEAL PENETRATION AND PROVIDE ESCUTCHEON.
- 10 EXTEND PROPANE GAS PIPING FROM TANK FARM TO THIS POINT. CONFIRM EXACT LOCATIONS.
- 11 CONNECT 1" COMPRESSED AIR LINE AND 3/4" GN LINE TO OVERHEAD HOSE REEL. PROVIDE SHUT-OFF AND UNION. HOSE REEL BY CONTRACTOR.
- 12 3/4" COMPRESSED AIR DROP DOWN TO QUICK DISCONNECT. PROVIDE SHUT-OFF VALVE. VERIFY MOUNTING HEIGHT WITH OWNER. REFER TO DETAIL 5/1601.
- 13 DROP DOWN GN LINE ON WARM SIDE OF INSULATION TO WH1 AT 18" A.F.F.
- 14 REUSE EXISTING HOLDING TANK AND BLADDER TANK. RELOCATE TO MEZZANINE. REUSE EXISTING WATER SUPPLY. MAKE CONNECTION TO EXISTING IN THIS AREA. CONFIRM EXACT LOCATION.
- 15 AIR COMPRESSOR BY THIS CONTRACTOR. CONNECT 1-1/4" COMPRESSED AIR LINE TO COMPRESSOR. PROVIDE SHUT-OFF VALVE AND UNION.
- 16 GAS LINE DOWN TO HEATER BURNER. PROVIDE SHUT-OFF VALVE, UNION AND APPLIANCE REGULATOR TO REGULATE GAS PRESSURE FROM 2 PSI TO 11" W.C. REFERENCE DETAIL 2/1603.
- 17 DROP AIR LINE DOWN COLUMN FACE AND TERMINATE WITH QUICK COUPLER 3'-0" A.F.F.
- 18 CONNECT TO EXISTING BUILDING SANITARY SEWER. FIELD VERIFY EXISTING LOCATION AND INVERTED ELEVATION TO PROVIDE PROPER FLOW TO EXISTING SEPTIC DRAIN FIELD.

DESIGNER

ARCHIIPLEX
GROUP

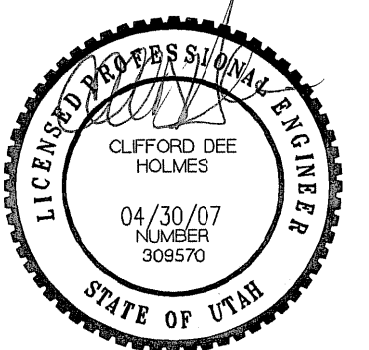
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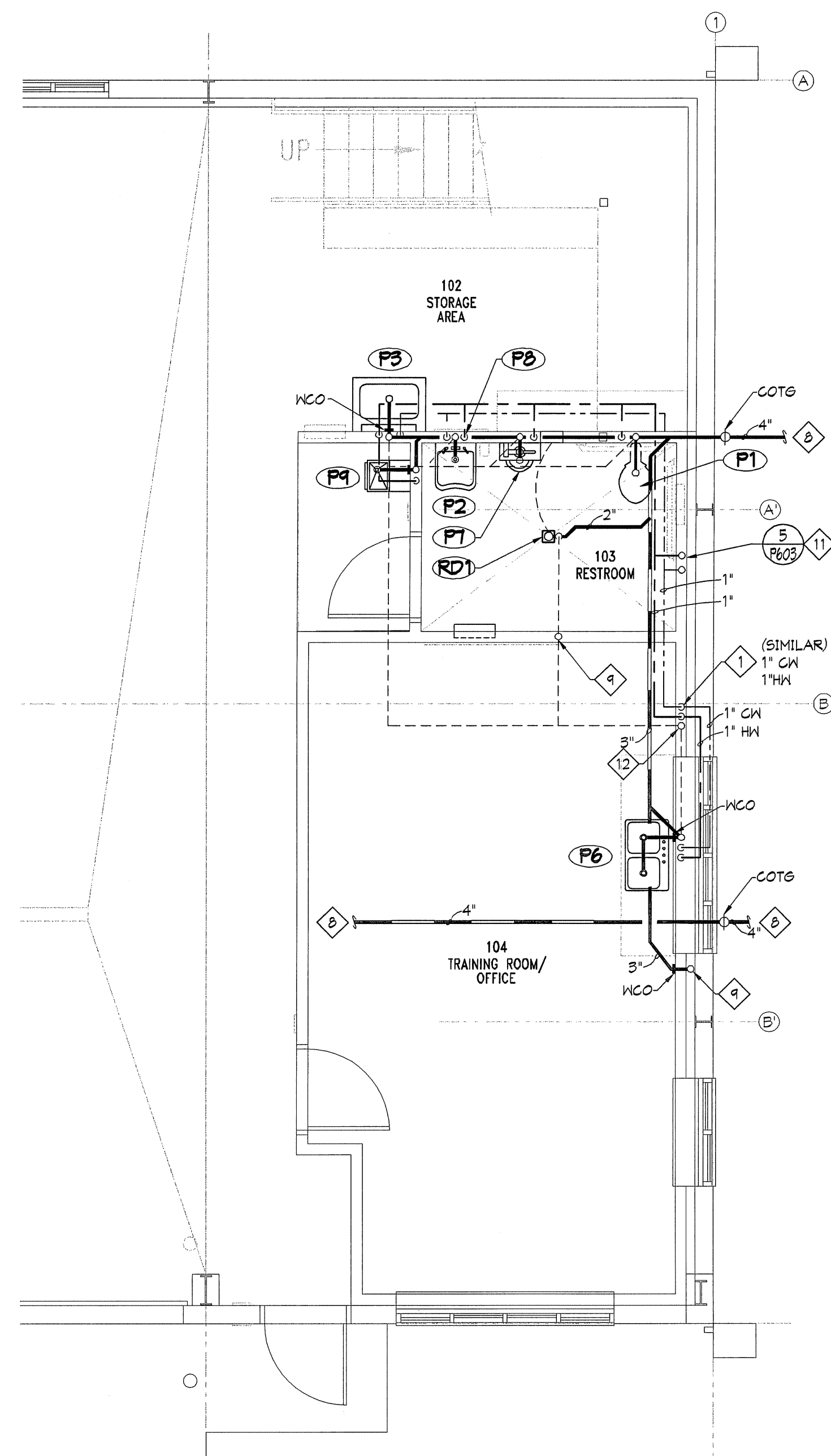
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SHEET TITLE

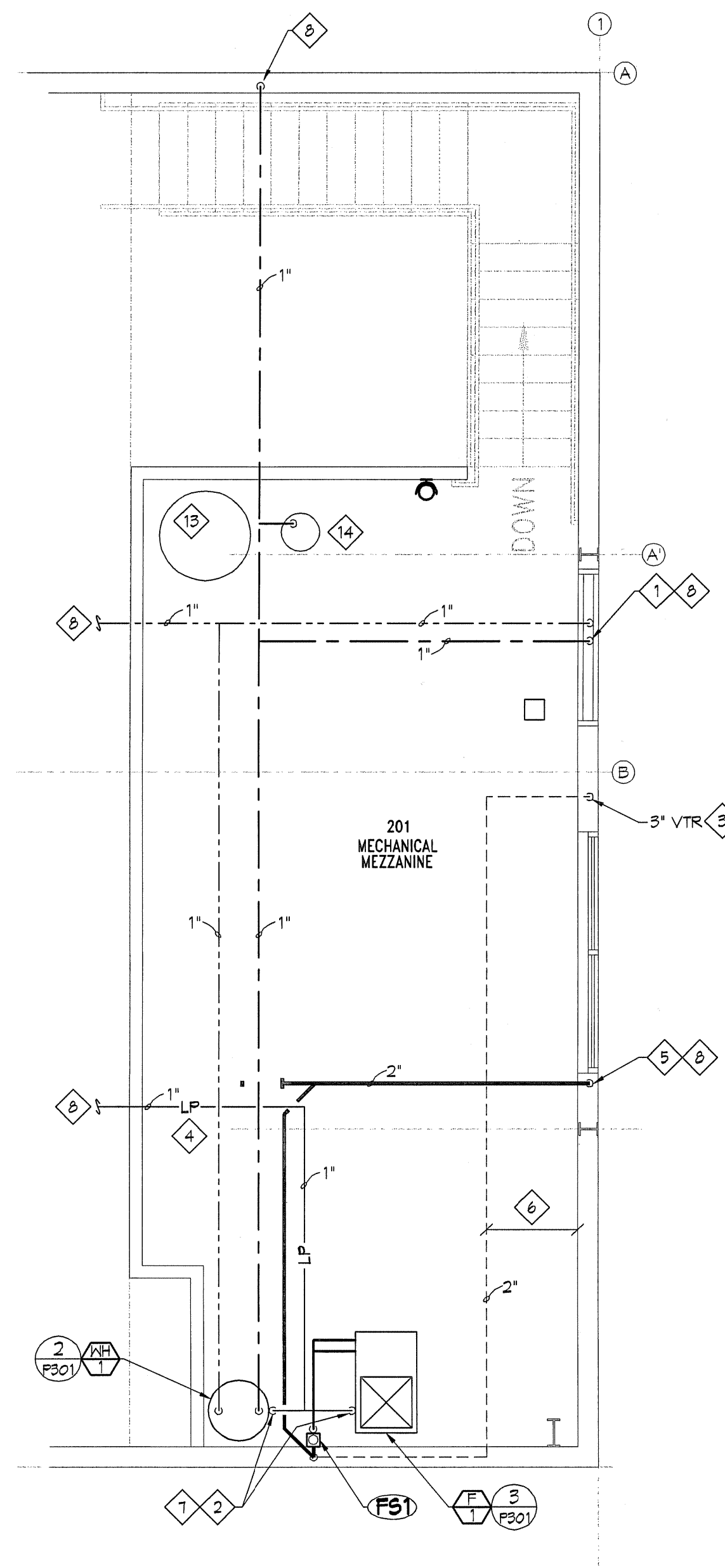
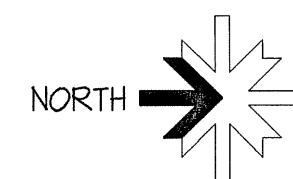
PLUMBING PLAN

P201



PLUMBING ENLARGEMENT
SCALE: 1/4" = 1'-0"

1
P301



MEZZANINE PLUMBING PLAN
SCALE: 1/4" = 1'-0"

2
P301



KEY NOTES

- 1 DROP WITH WATER LINES TO LEVEL BELOW. ENSURE WATERLINES DROP ON WARM SIDE OF INSULATION.
- 2 MAKE CONNECTION TO FURNACE AND COOLING COIL CONDENSATE DRAIN CONNECTIONS AND ROUTE TO DRAIN INDIRECTLY INTO FLOOR SINK. 1" MIN P.V.C.
- 3 3" VENT LINE FROM BELOW CONTINUE THROUGH ROOF.
- 4 PROPANE GAS LINE.
- 5 DROP TO LEVEL BELOW WITH SANITARY SEWER LINE.
- 6 MAINTAIN MINIMUM OF 36" CLEAR SPACE IN FRONT OF ELECTRICAL PANELS IN THIS AREA. CONFIRM EXACT LOCATION AND COORDINATE WITH E.C.
- 7 MAKE GAS CONNECTION TO GAS APPLIANCE THROUGH SHUTOFF VALVE, UNION AND FLEXIBLE CONNECTOR.
- 8 CONTINUED PLUMBING PLAN P201.
- 9 RISE TO CEILING LEVEL WITH VENT.
- 10 DROP FROM LEVEL ABOVE WITH SANITARY DRAIN LINE.
- 11 DROP FROM LEVEL ABOVE WITH WATER LINES.
- 12 RISE TO LEVEL ABOVE WITH SANITARY VENT LINE.
- 13 EXISTING HOLDING TANK RELOCATED TO THIS AREA.
- 14 EXISTING PRESSURE TANK RELOCATED TO THIS AREA.

CLIENT



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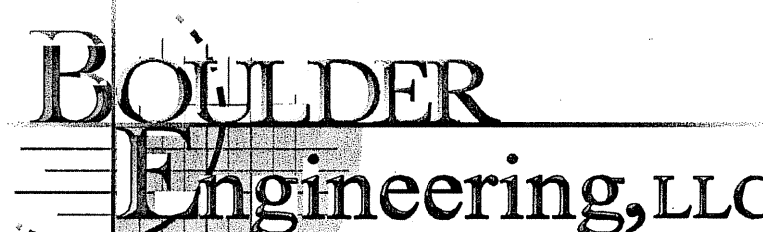
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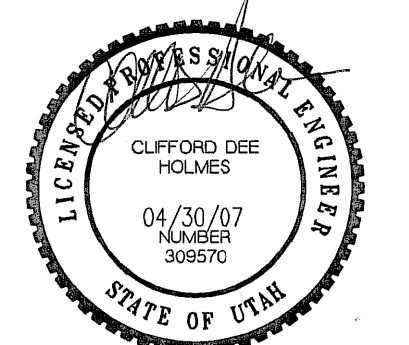
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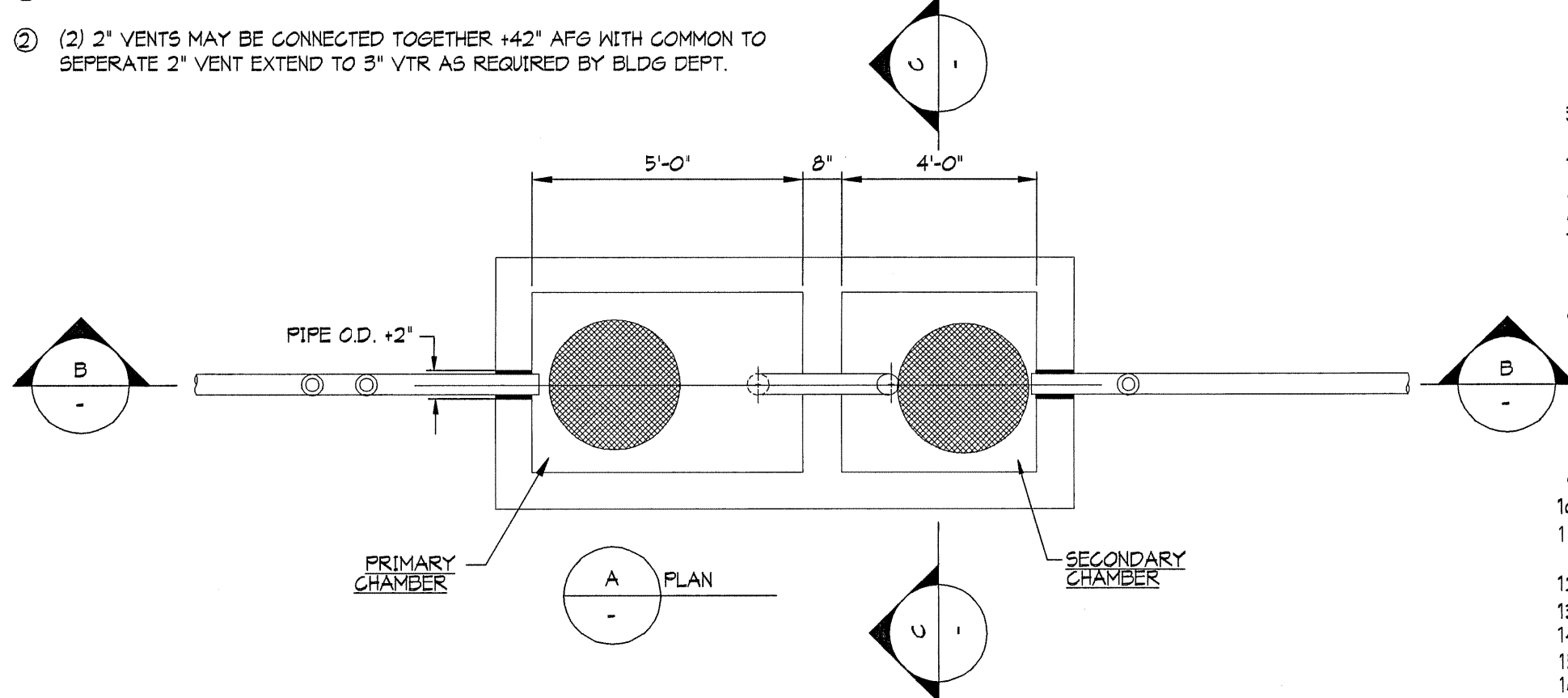
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PLUMBING
ENLARGEMENTS

P301

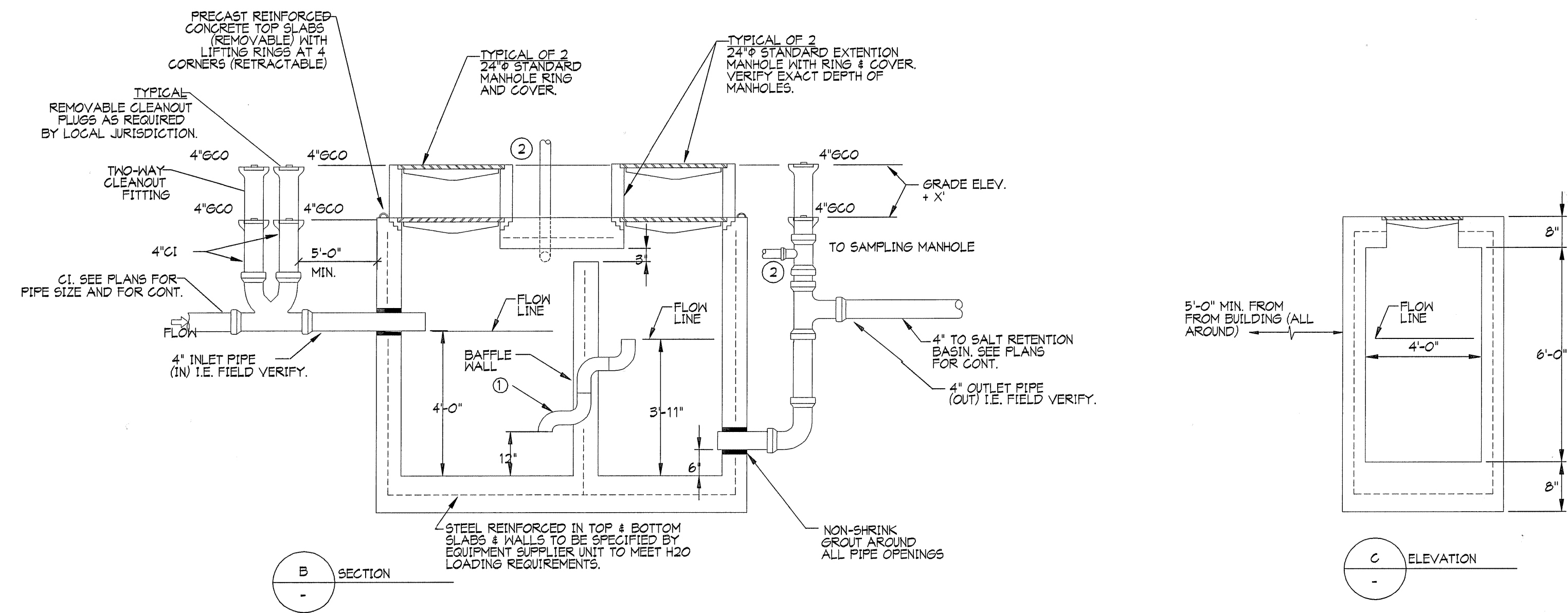
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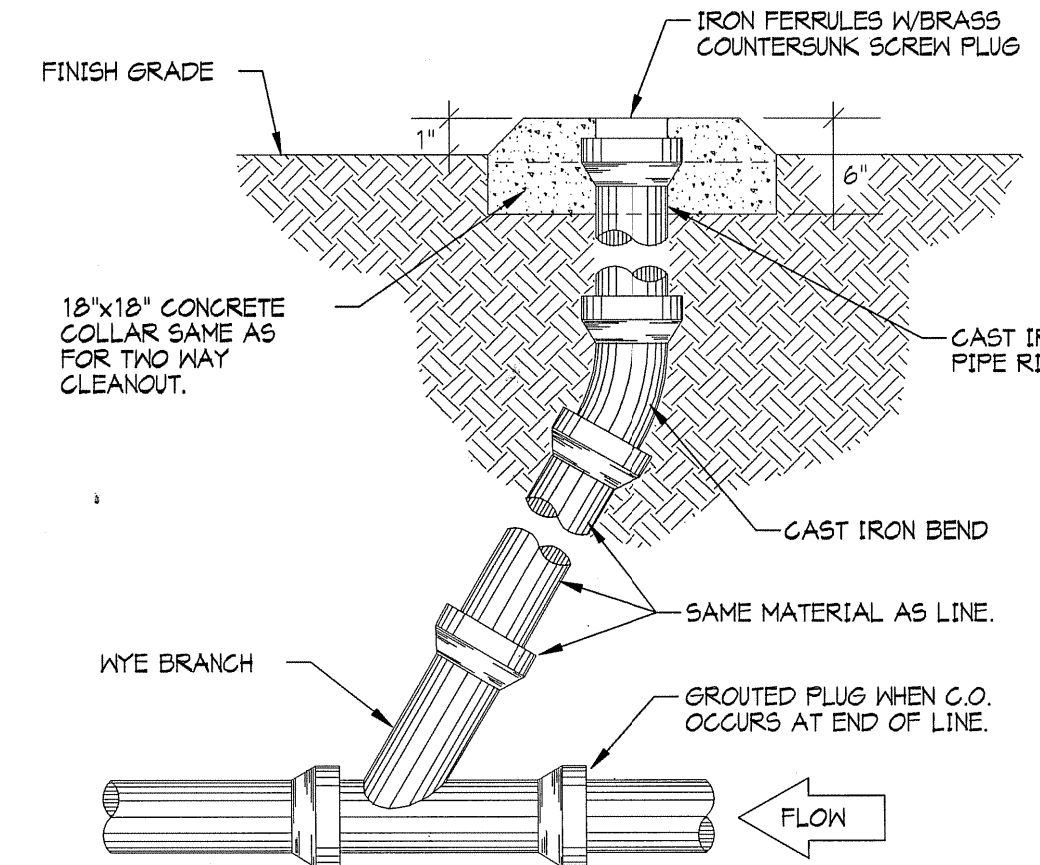
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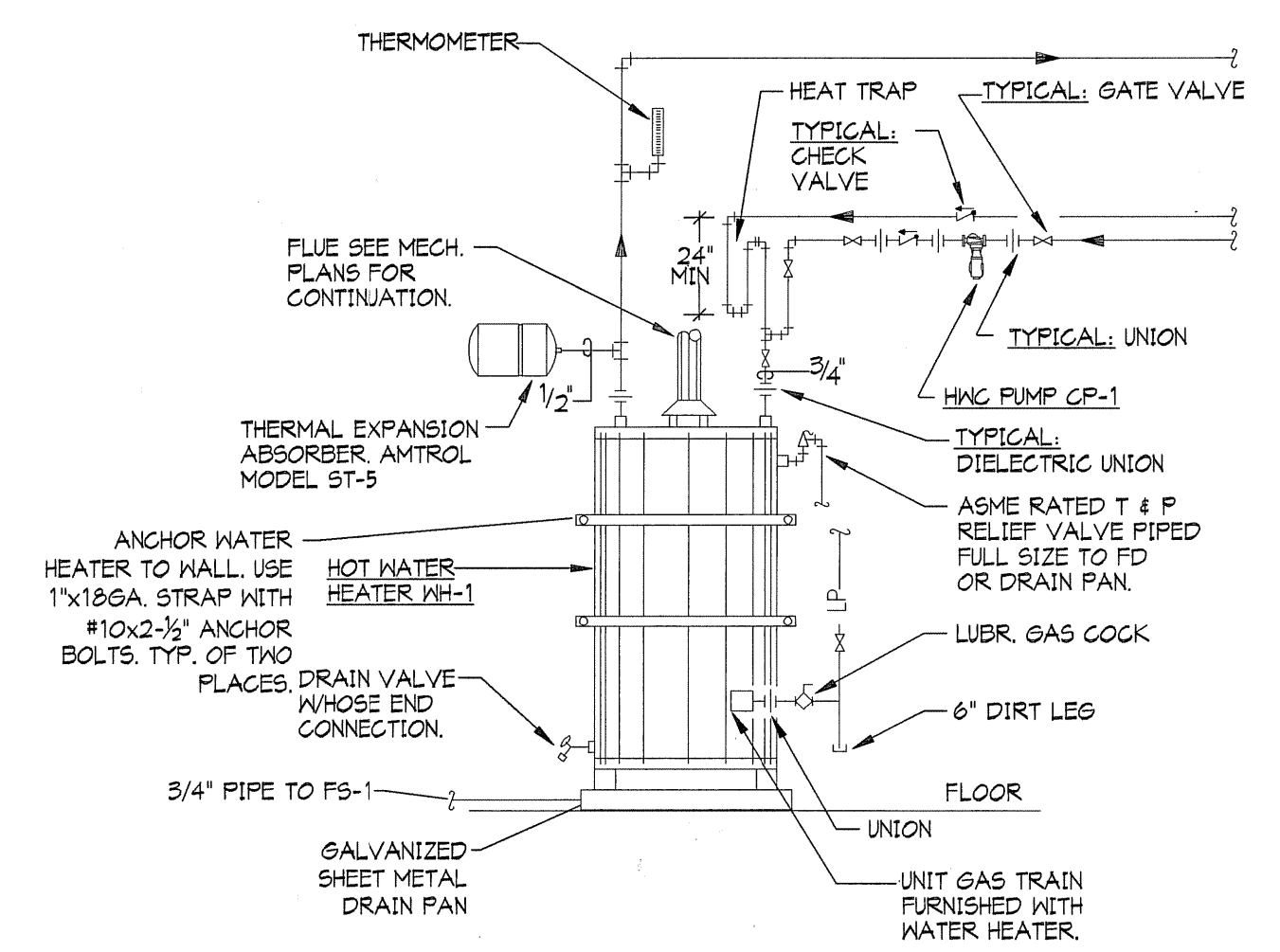
1000 GALLON GREASE INTERCEPTOR DETAIL-2 COMPARTMENT

SCALE NO SCALE 4



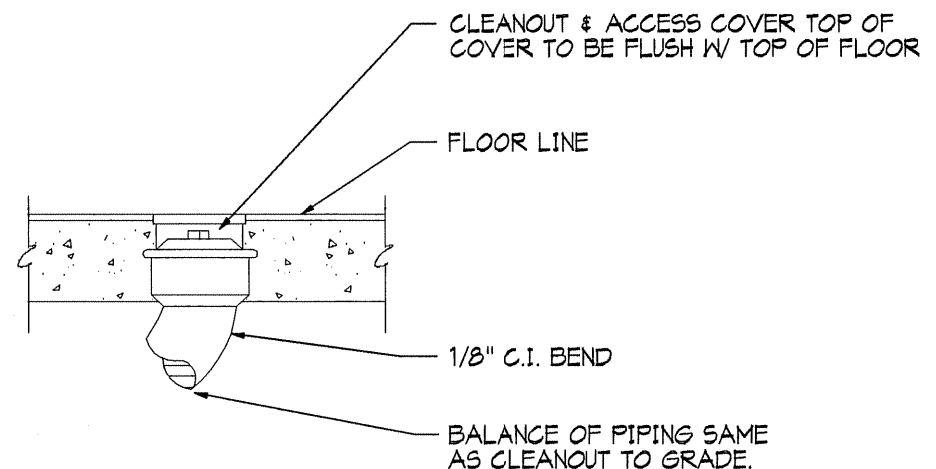
EXTERIOR CLEANOUT DETAIL

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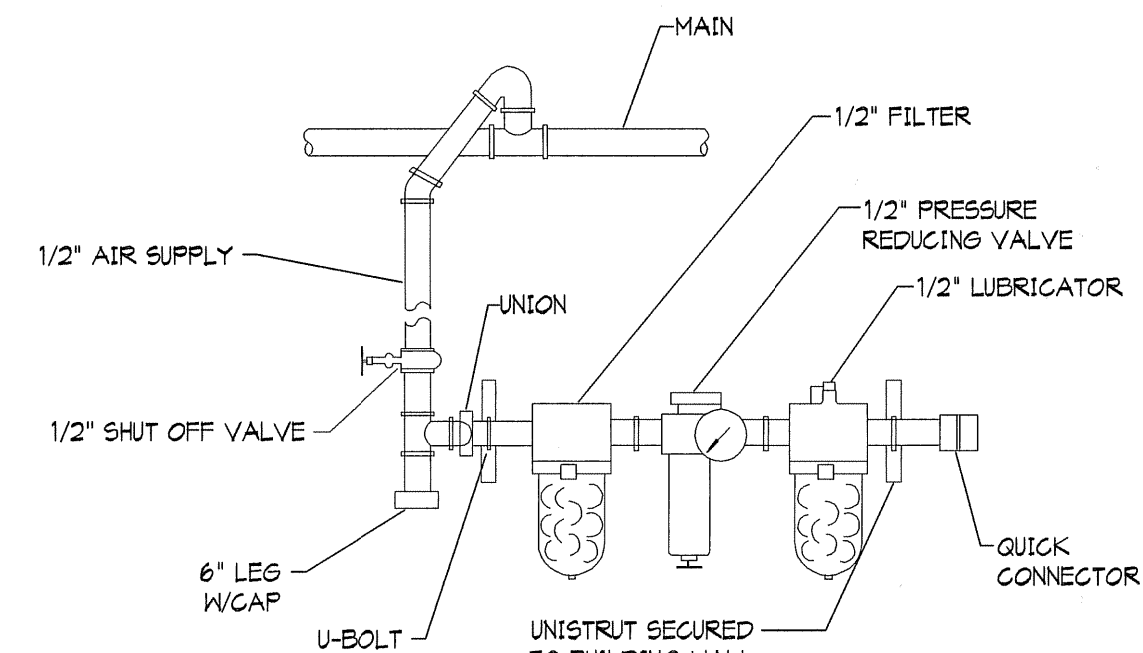
LIQUID PROPANE FIRED WATER HEATER

SCALE NO SCALE 2



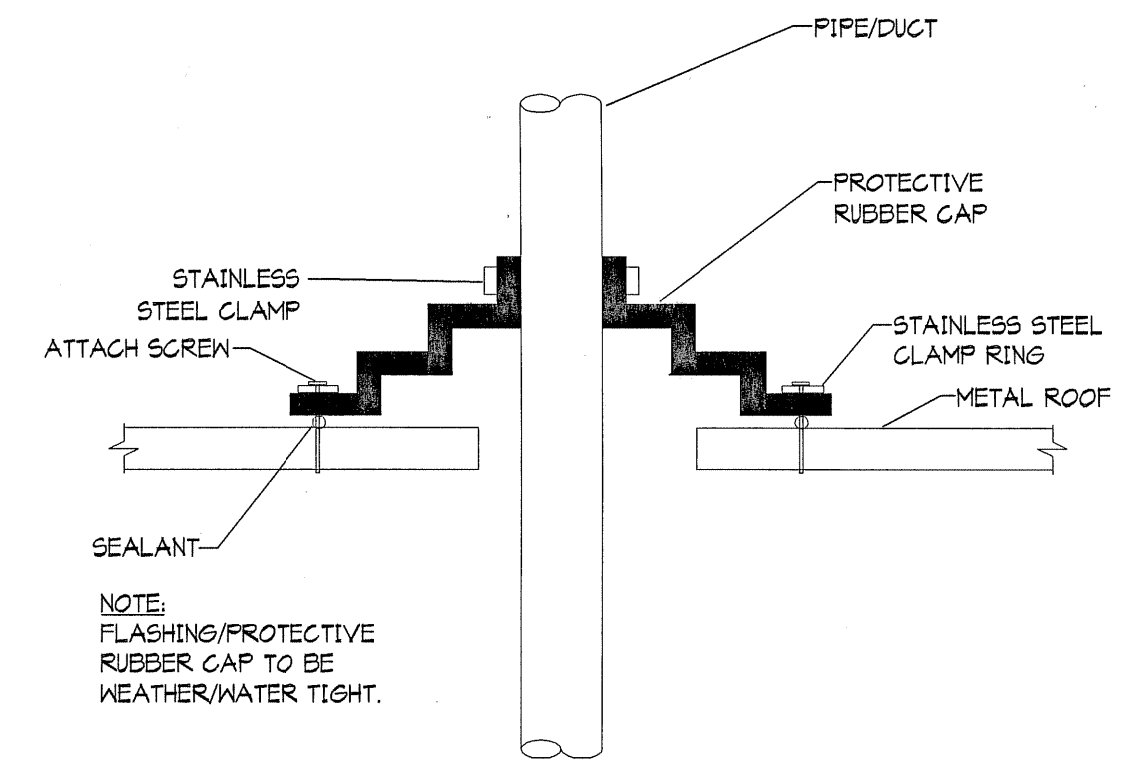
FLOOR CLEANOUT

SCALE NO SCALE 6



COMPRESSED AIR OUTLET CONNECTION DETAIL

SCALE NO SCALE 5



METAL ROOF PENETRATION DETAIL

SCALE NO SCALE 3

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SR-44 @ M.P. 0.5 ±
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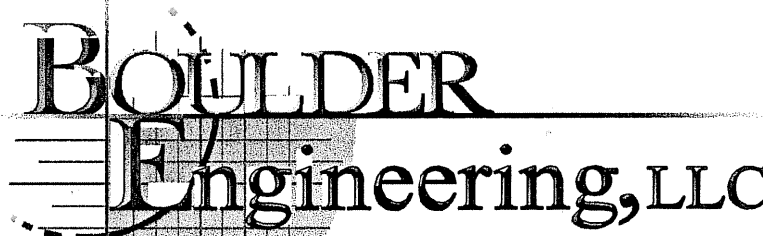
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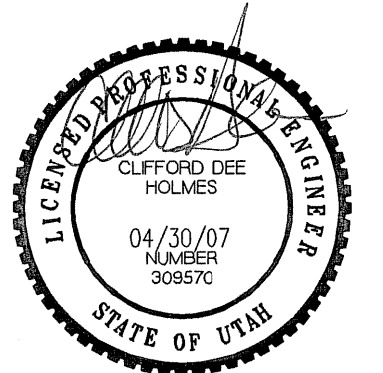
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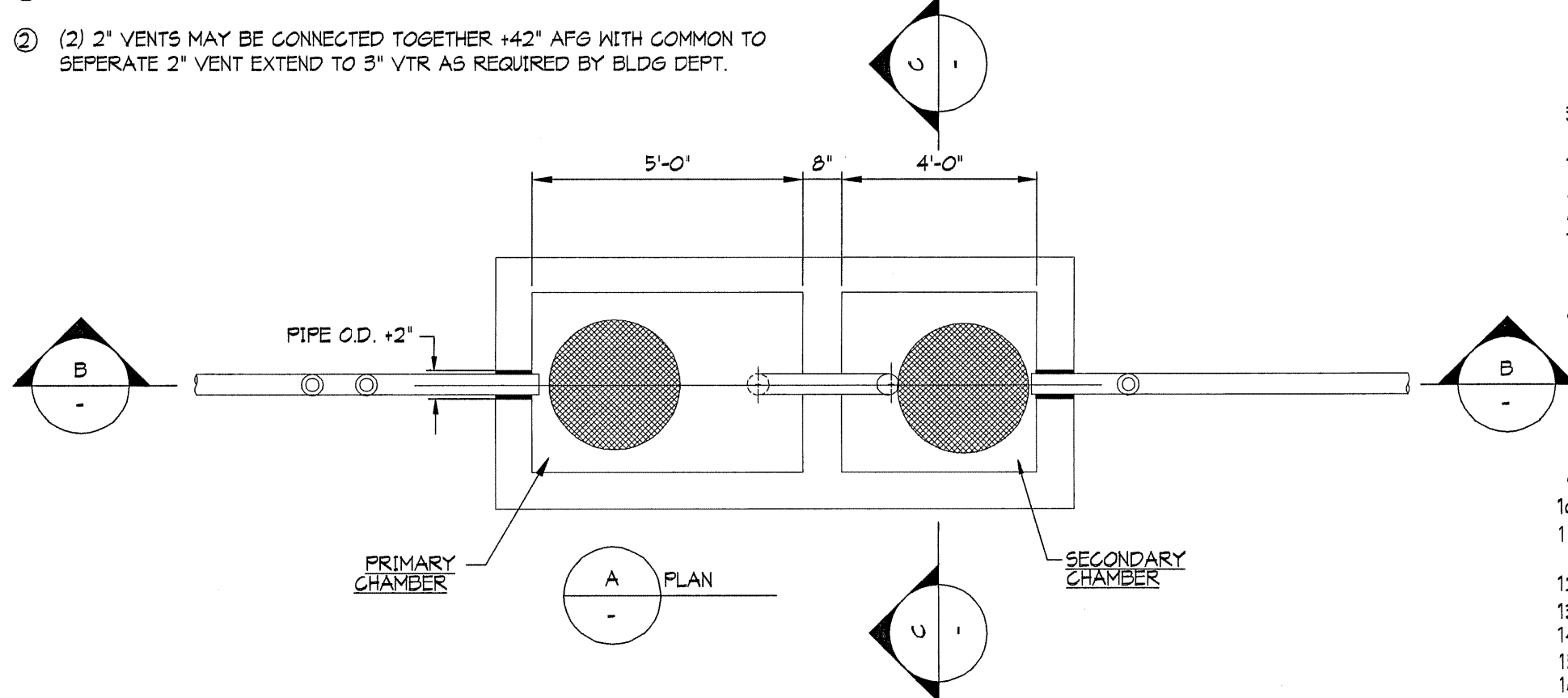
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PLUMBING DETAILS

P601

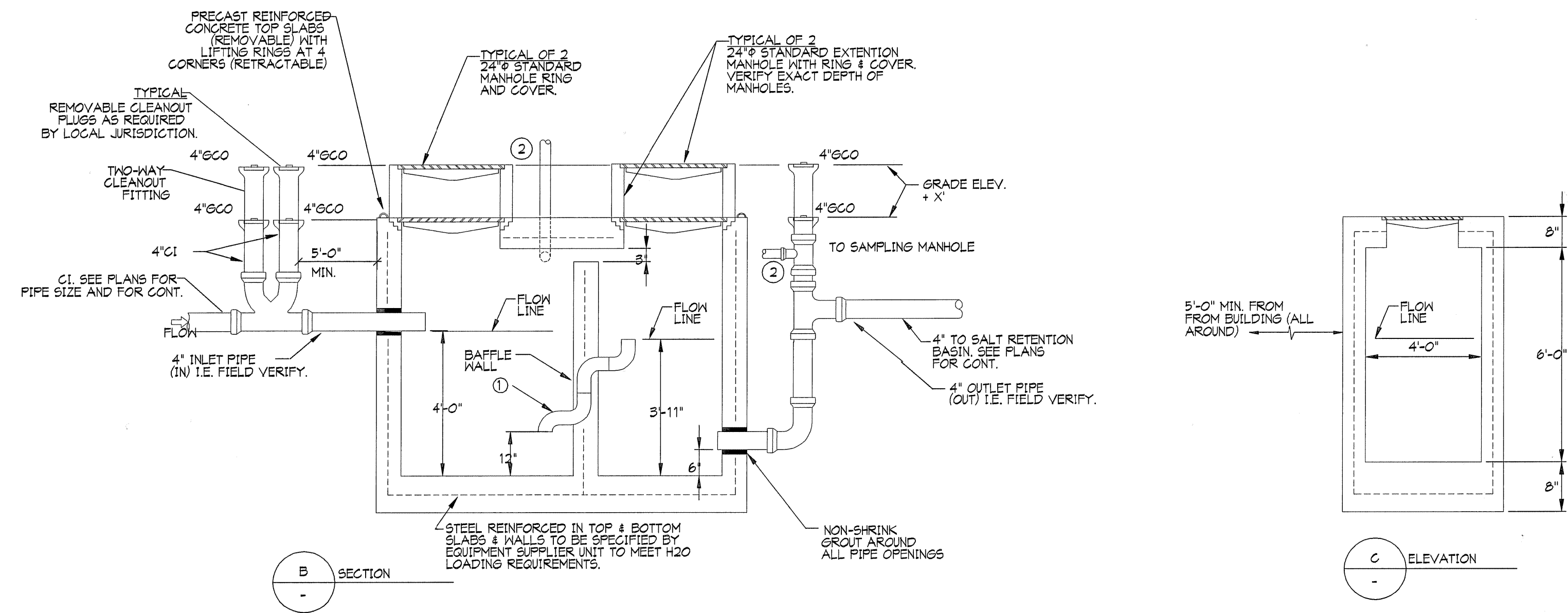
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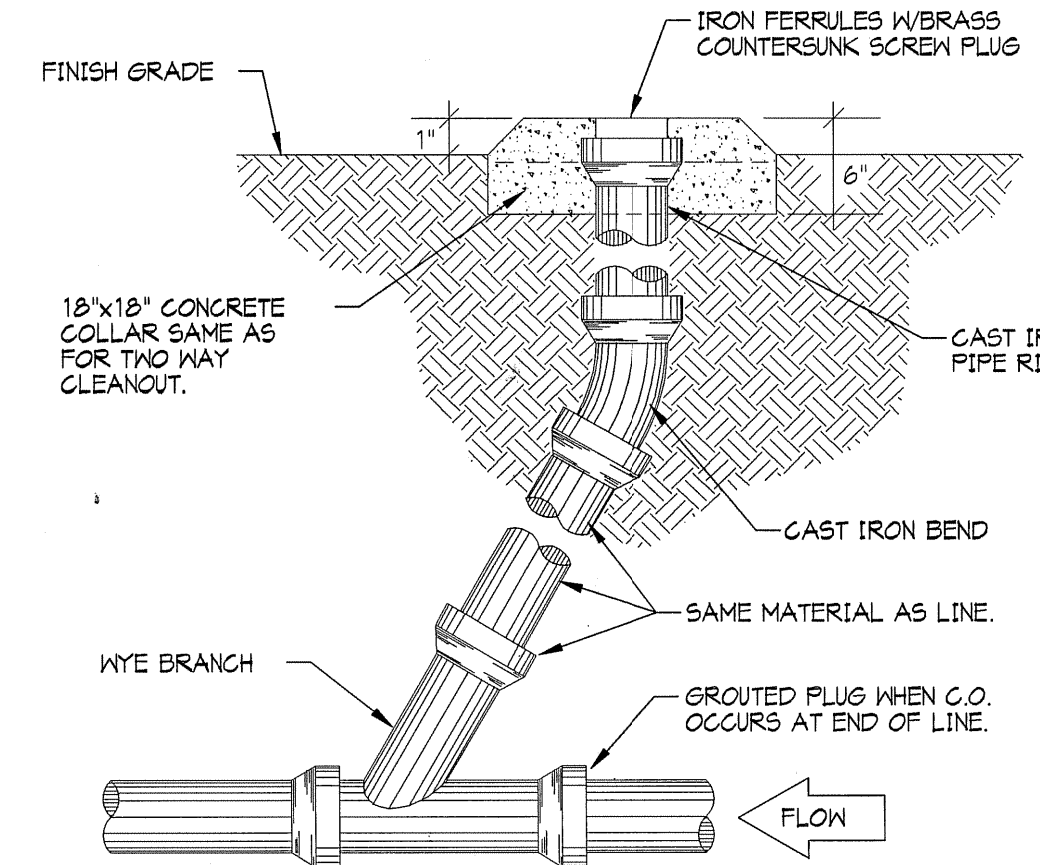
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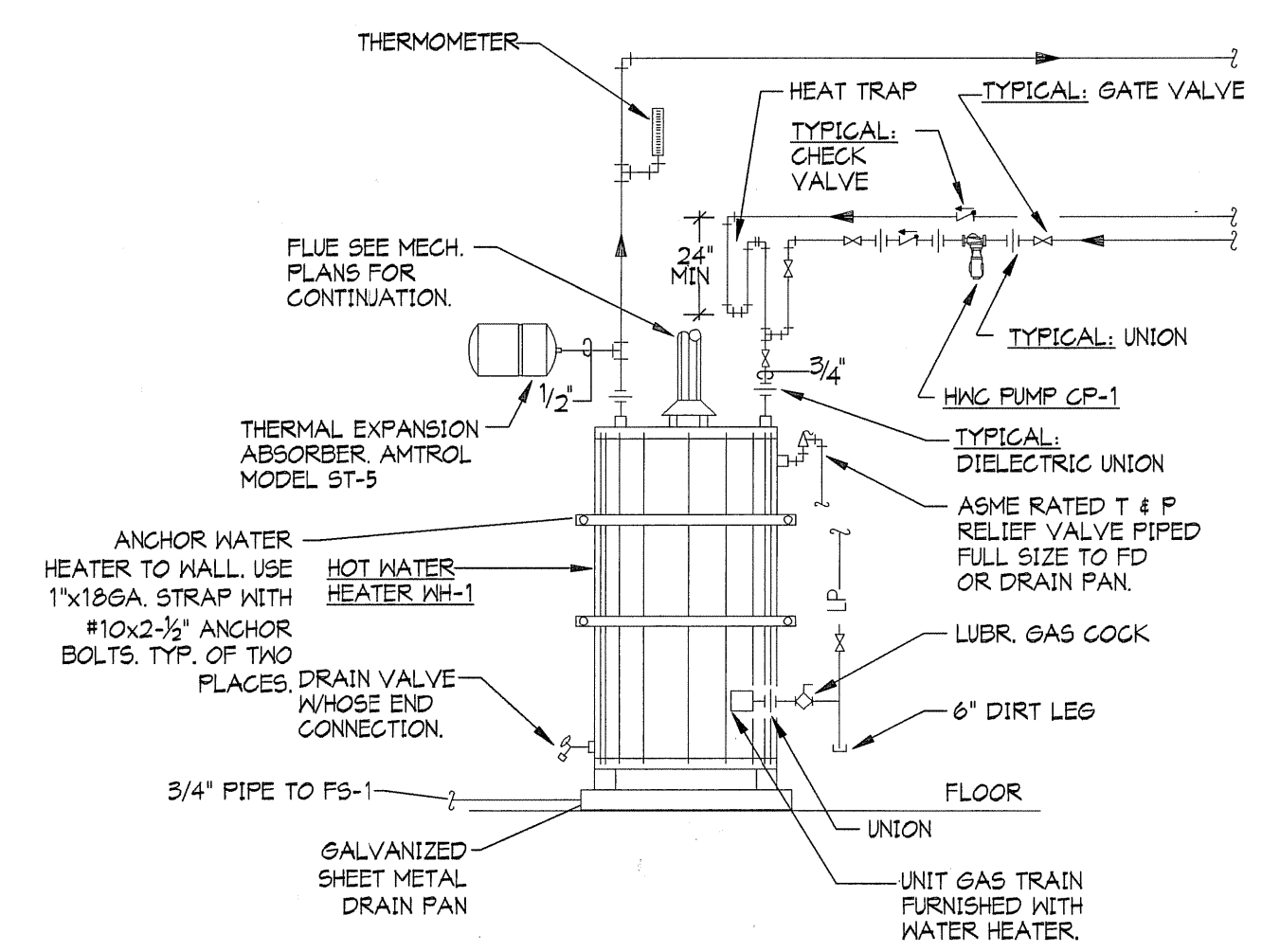
1000 GALLON GREASE INTERCEPTOR DETAIL-2 COMPARTMENT

SCALE NO SCALE 4



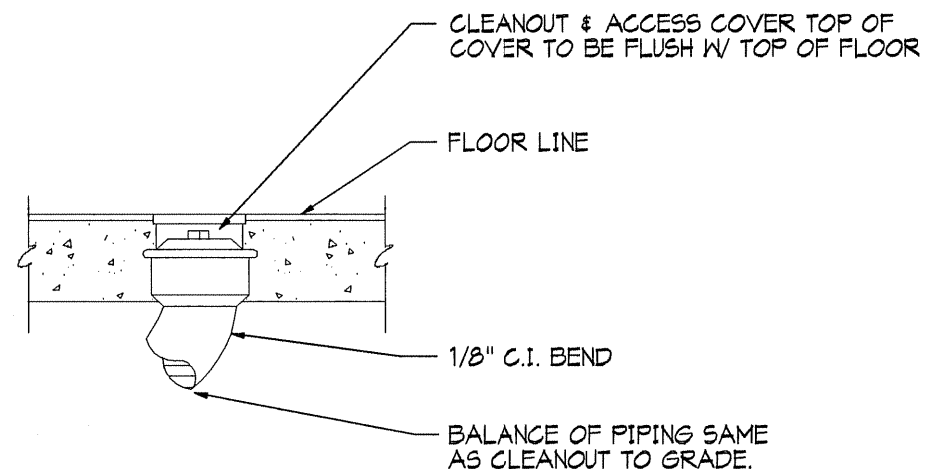
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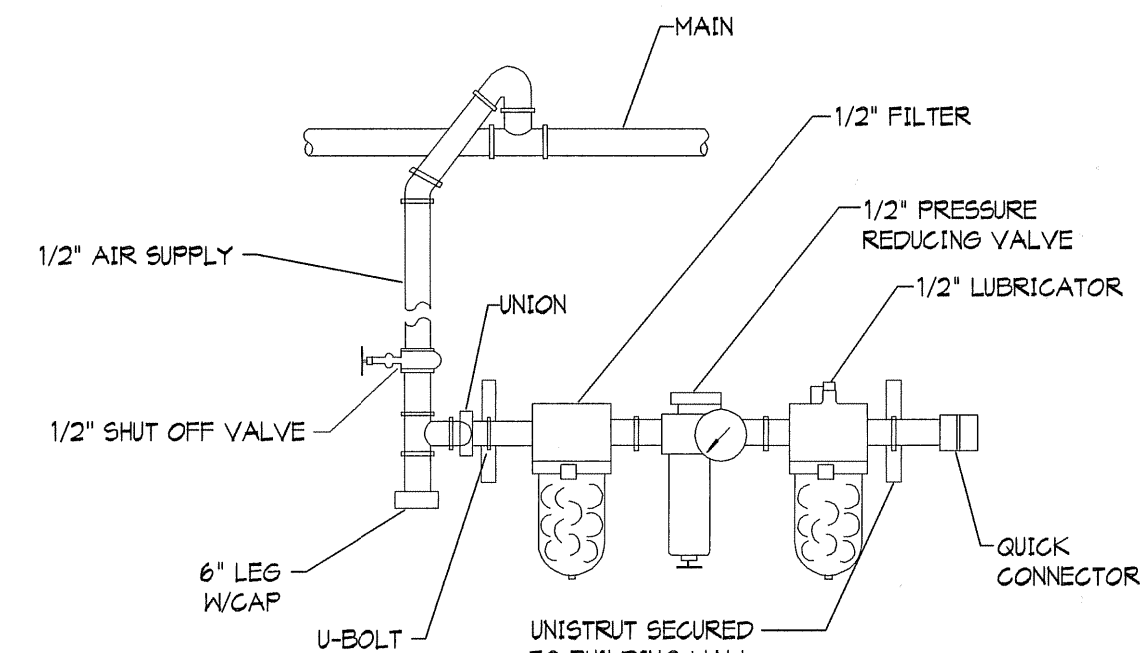
LIQUID PROPANE FIRED WATER HEATER

SCALE NO SCALE 2



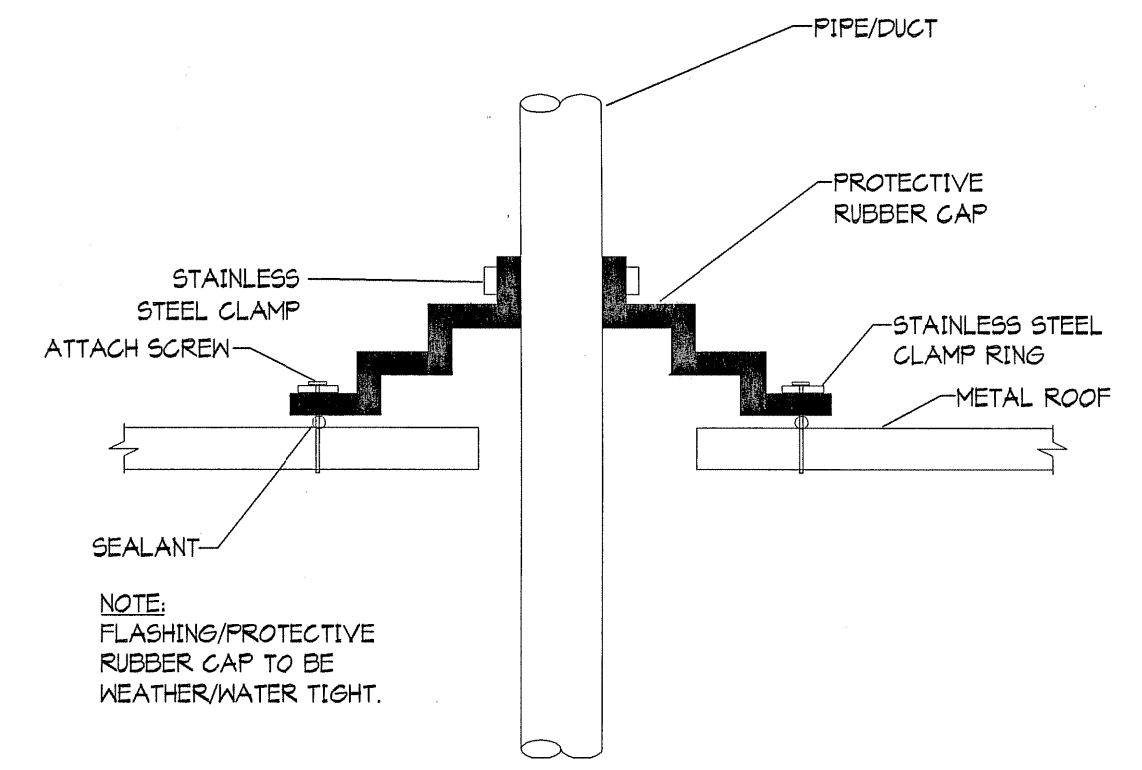
FLOOR CLEANOUT

SCALE NO SCALE 6



COMPRESSED AIR OUTLET CONNECTION DETAIL

SCALE NO SCALE 5



METAL ROOF PENETRATION DETAIL

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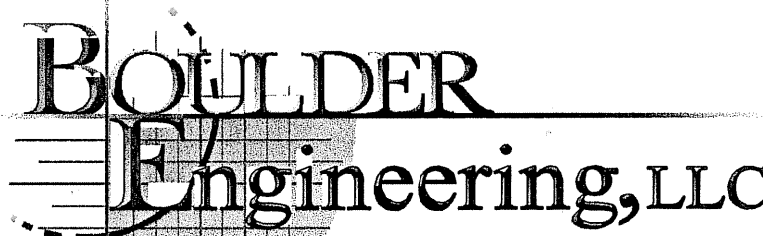
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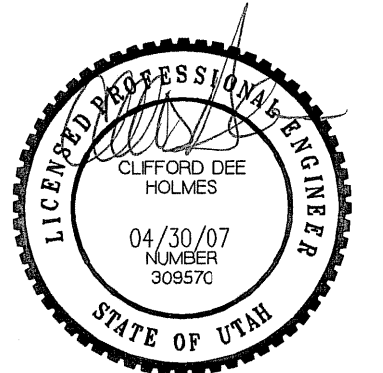
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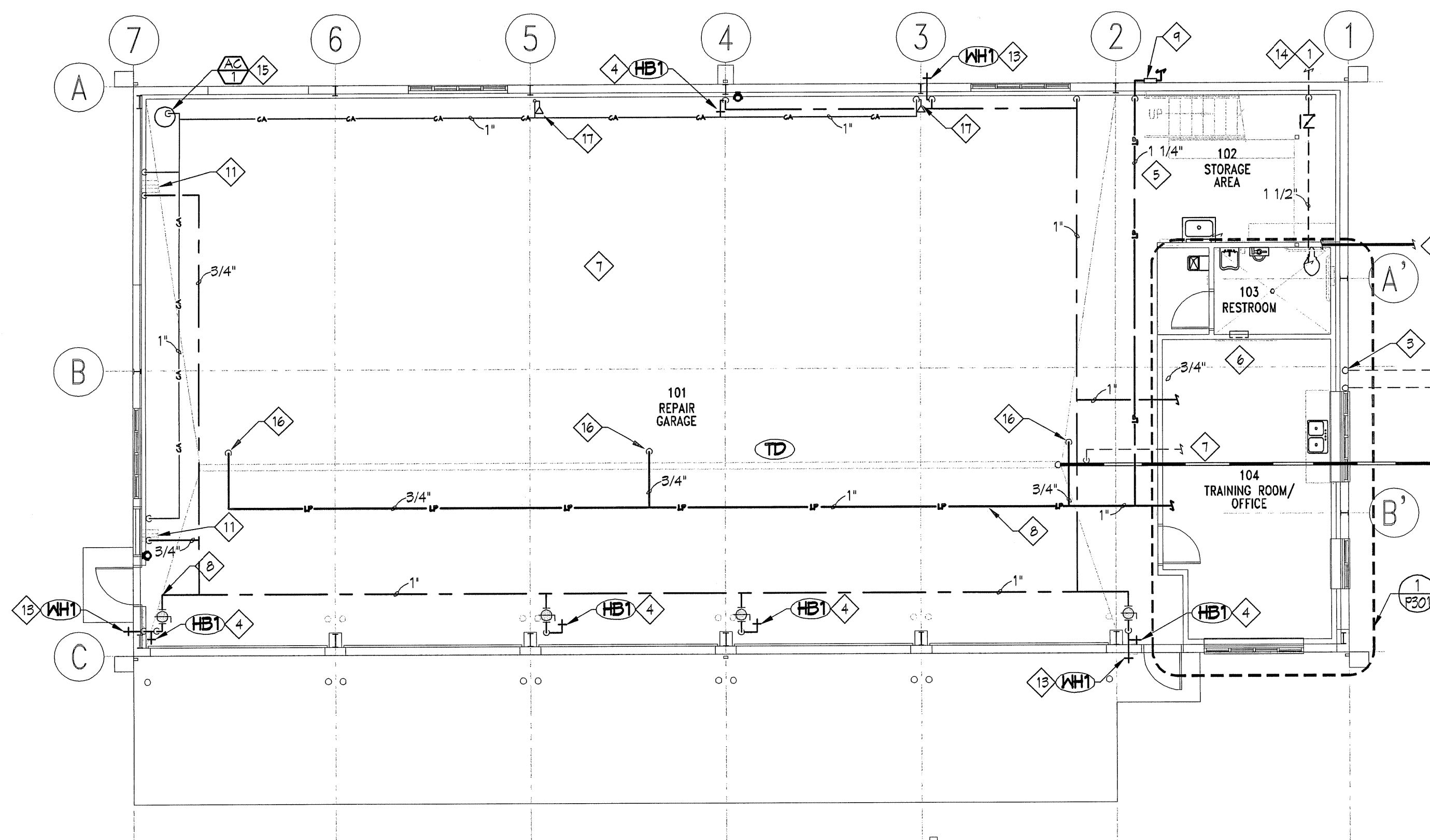
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PLUMBING DETAILS

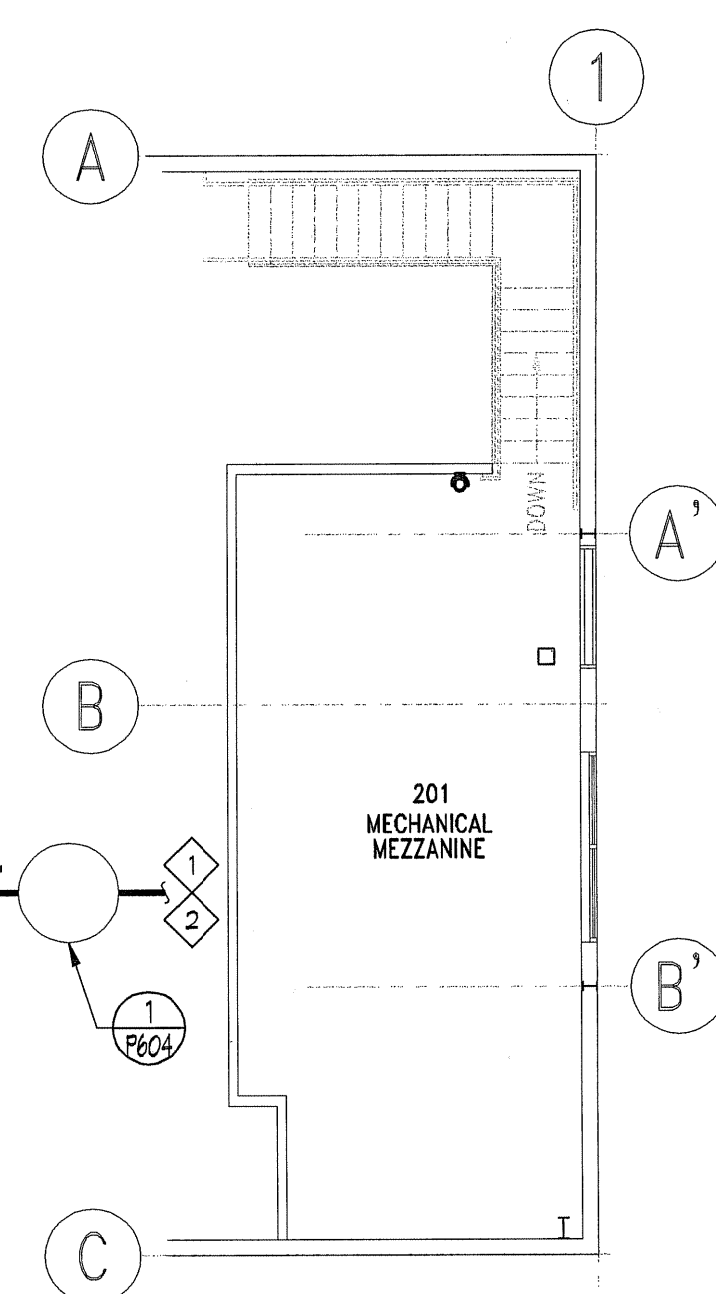
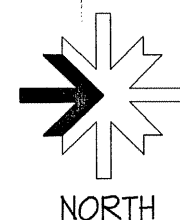
P601

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D
C
B
A



MAINTENANCE BUILDING PLAN
SCALE: 1/8" = 1'-0"



MEZZANINE FLOOR PLAN
SCALE: 1/8" = 1'-0"



KEY NOTES

- 1 SEE SITE DRAWINGS FOR CONTINUATION.
- 2 SEE CIVIL DRAWINGS FOR INVERT ELEVATION. GENERAL CONTRACTOR IS TO COORDINATE WITH HIS SUBS TO VERIFY SITE SANITARY SEWER AND BUILDING SANITARY SEWER PIPE WILL PROPERLY CONNECT PRIOR TO INSTALLING ANY SANITARY PIPE IN THE SITE OR BUILDING. IF A PROBLEM EXISTS, THE CONTRACTOR IS TO INFORM THE ARCHITECT OF THE PROBLEM PRIOR TO INSTALLING ANY PIPE. IF PIPE IS INSTALLED AND A PROBLEM ARISES, THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM ANY WORK REQUIRED SUCH THAT THE SANITARY PIPE CAN BE INSTALLED CORRECTLY TO CODE STANDARDS.
- 3 VENTS FROM SAND/OIL SEPARATOR MAY BE COMBINED AFTER THEY ARE 10' ABOVE FLOOD RIM OF SEPARATOR. THEN VENTS MAY BE CONNECTED TO VEHICLE STORAGE BAY WASTE SYSTEM VENT PIPE.
- 4 PROVIDE PVC COVER OVER INSULATION TO 8'-0" AFF. MOUNT HB-1 3'-0" AFF.
- 5 ROUTE PIPING ABOVE STRUCTURE.
- 6 ALL WASTE PIPING 3" AND GREATER TO SLOPE 1/8" PER FOOT.
- 7 PIPE SLEEVES REQUIRED ON THIS PROJECT. IF CONTRACTOR FAILS TO INSTALL PIPE SLEEVES, THE CONTRACTOR SHALL REMOVE PIPE, INSTALL SLEEVE AND REINSTALL PIPE AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 8 CAP LINE FOR FUTURE EXPANSION.
- 9 AT BUILDING EXTERIOR PROVIDE PROPANE SHUTOFF VALVE AT 24" A.F.G. PROVIDE PRESSURE REGULATOR TO REGULATE PRESSURE FROM 10 PSI TO 2 PSI. TURN, PENETRATE BUILDING WALL AND RISE TO ROOF TRUSSES. SEAL PENETRATION AND PROVIDE ESCUTCHEON.
- 10 EXTEND PROPANE GAS PIPING FROM TANK FARM TO THIS POINT. CONFIRM EXACT LOCATIONS.
- 11 CONNECT 1" COMPRESSED AIR LINE AND 3/4" CW LINE TO OVERHEAD HOSE REEL. PROVIDE SHUT-OFF AND UNION. HOSE REEL BY CONTRACTOR.
- 12 3/4" COMPRESSED AIR DROP DOWN TO QUICK DISCONNECT. PROVIDE SHUT-OFF VALVE. VERIFY MOUNTING HEIGHT WITH OWNER. REFER TO DETAIL 5/P601.
- 13 DROP WITH CW LINE ON WARM SIDE OF INSULATION TO WH1 AT 18" A.F.G.
- 14 REUSE EXISTING HOLDING TANK AND BLADDER TANK. RELOCATE TO MEZZANINE. REUSE EXISTING WATER SUPPLY. MAKE CONNECTION TO EXISTING IN THIS AREA. CONFIRM EXACT LOCATION.
- 15 AIR COMPRESSOR BY THIS CONTRACTOR. CONNECT 1-1/4" COMPRESSED AIR LINE TO COMPRESSOR. PROVIDE SHUT-OFF VALVE AND UNION.
- 16 GAS LINE DOWN TO HEATER BURNER. PROVIDE SHUT-OFF VALVE, UNION AND APPLIANCE REGULATOR TO REGULATE GAS PRESSURE FROM 2 PSI TO 11" W.C.. REFERENCE DETAIL 2/M603.
- 17 DROP AIR LINE DOWN COLUMN FACE AND TERMINATE WITH QUICK COUPLER 3'-0" A.F.F.
- 18 CONNECT TO EXISTING BUILDING SANITARY SEWER. FIELD VERIFY EXACT LOCATION AND INVERTED ELEVATION TO PROVIDE PROPER FLOW TO EXISTING SEPTIC DRAIN FIELD.

CLIENT



STATION #3437A
SR-44 @ M.P. 0.5 ±
GREENDALE UTAH

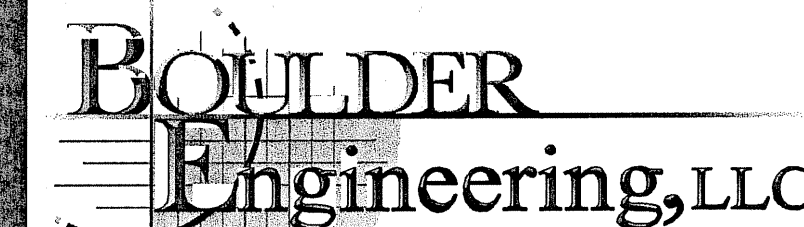
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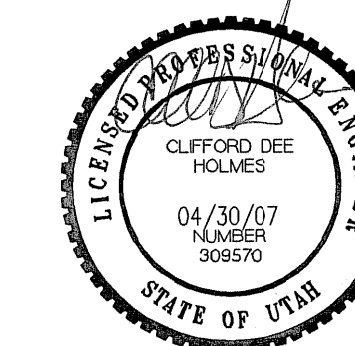
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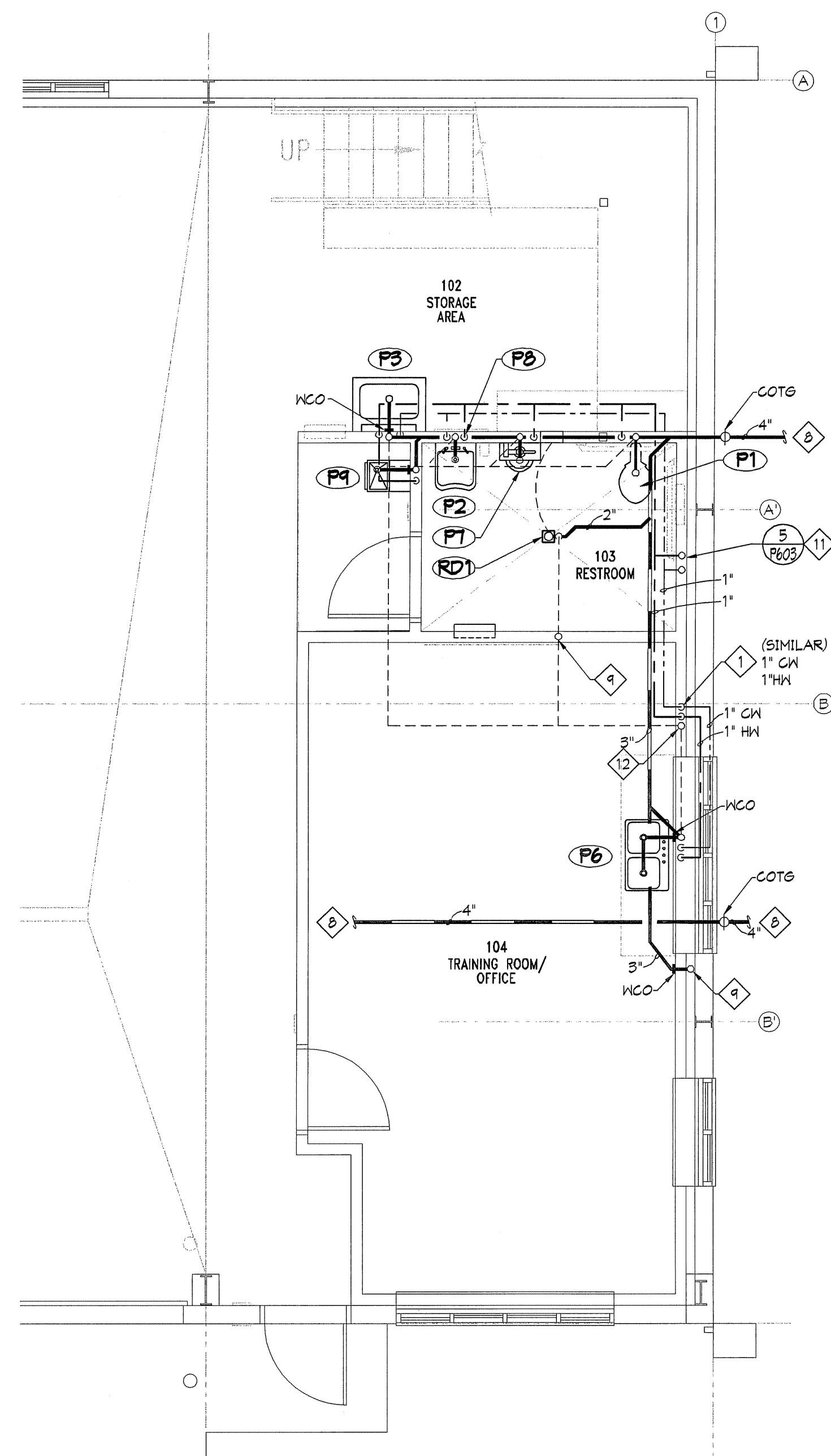
MARK	DATE	DESCRIPTION

DFCM PROJECT NO: 07029900
ARCHIPLEX PROJECT NO: 0708.01
DRAWN BY: LCM
CHECKED BY: CDW
SCALE: 1/8" = 1'-0"
DATE: MAY 1, 2007

SHEET TITLE

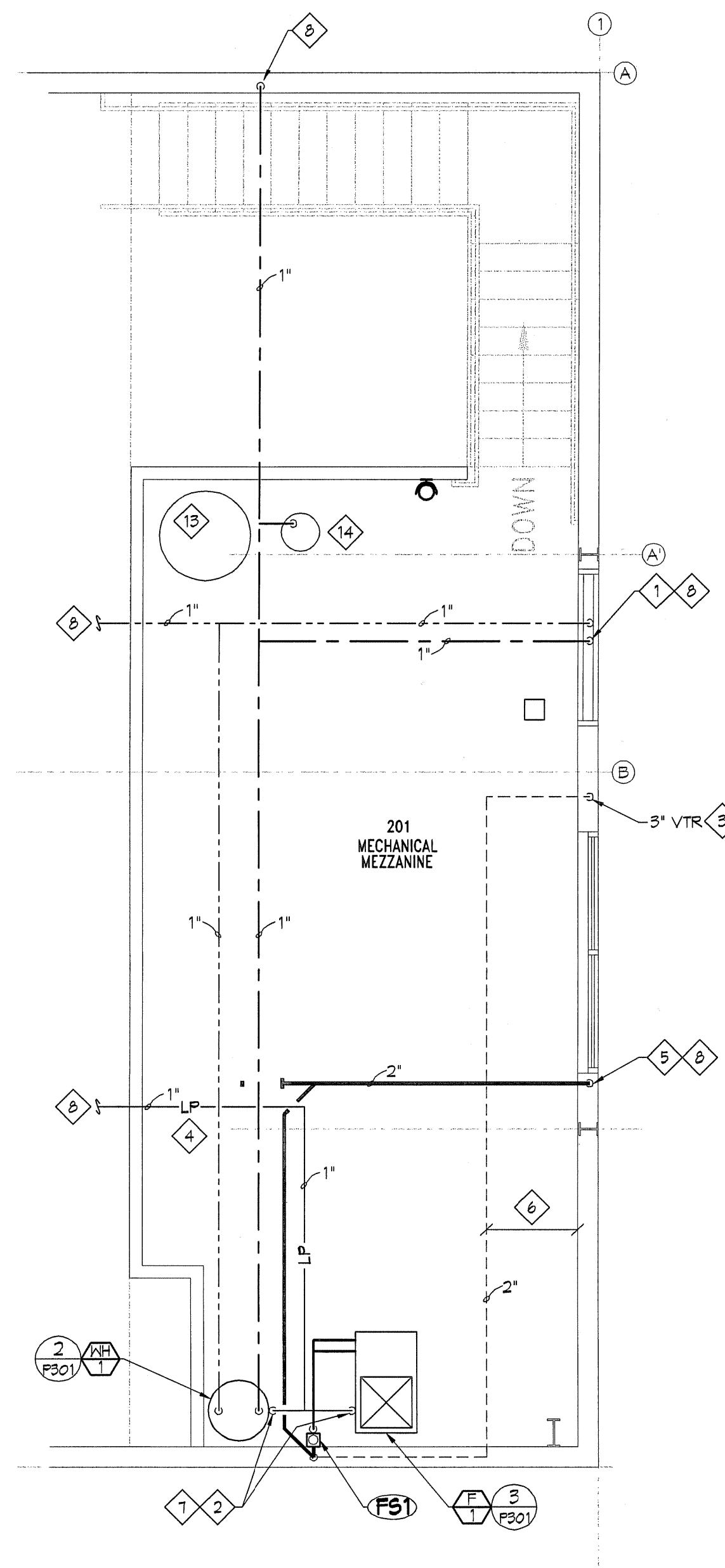
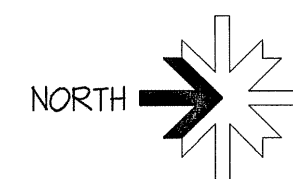
PLUMBING PLAN

P201



PLUMBING ENLARGEMENT
SCALE: 1/4" = 1'-0"

1
P301



MEZZANINE PLUMBING PLAN
SCALE: 1/4" = 1'-0"

2
P301



KEY NOTES

- 1 DROP WITH WATER LINES TO LEVEL BELOW. ENSURE WATERLINES DROP ON WARM SIDE OF INSULATION.
- 2 MAKE CONNECTION TO FURNACE AND COOLING COIL CONDENSATE DRAIN CONNECTIONS AND ROUTE TO DRAIN INDIRECTLY INTO FLOOR SINK. 1" MIN P.V.C.
- 3 3" VENT LINE FROM BELOW CONTINUE THROUGH ROOF.
- 4 PROPANE GAS LINE.
- 5 DROP TO LEVEL BELOW WITH SANITARY SEWER LINE.
- 6 MAINTAIN MINIMUM OF 36" CLEAR SPACE IN FRONT OF ELECTRICAL PANELS IN THIS AREA. CONFIRM EXACT LOCATION AND COORDINATE WITH E.C.
- 7 MAKE GAS CONNECTION TO GAS APPLIANCE THROUGH SHUTOFF VALVE, UNION AND FLEXIBLE CONNECTOR.
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- 13 EXISTING HOLDING TANK RELOCATED TO THIS AREA.
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CLIENT



STATION #3437A
SR-44 @ M.P. 0.5 ±
GREENDALE UTAH

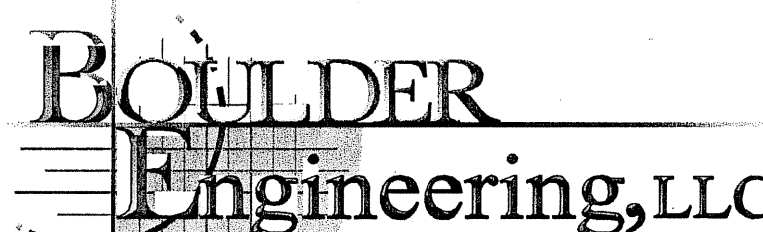
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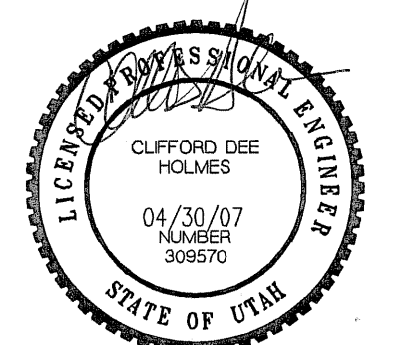
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MARK	DATE	DESCRIPTION

DFCM PROJECT NO: 07029900

ARCHIPLEX PROJECT NO: 0708.01

DRAWN BY: LCM

CHECKED BY: CDW

SCALE: 1/4" = 1'-0"

DATE: MAY 1, 2007

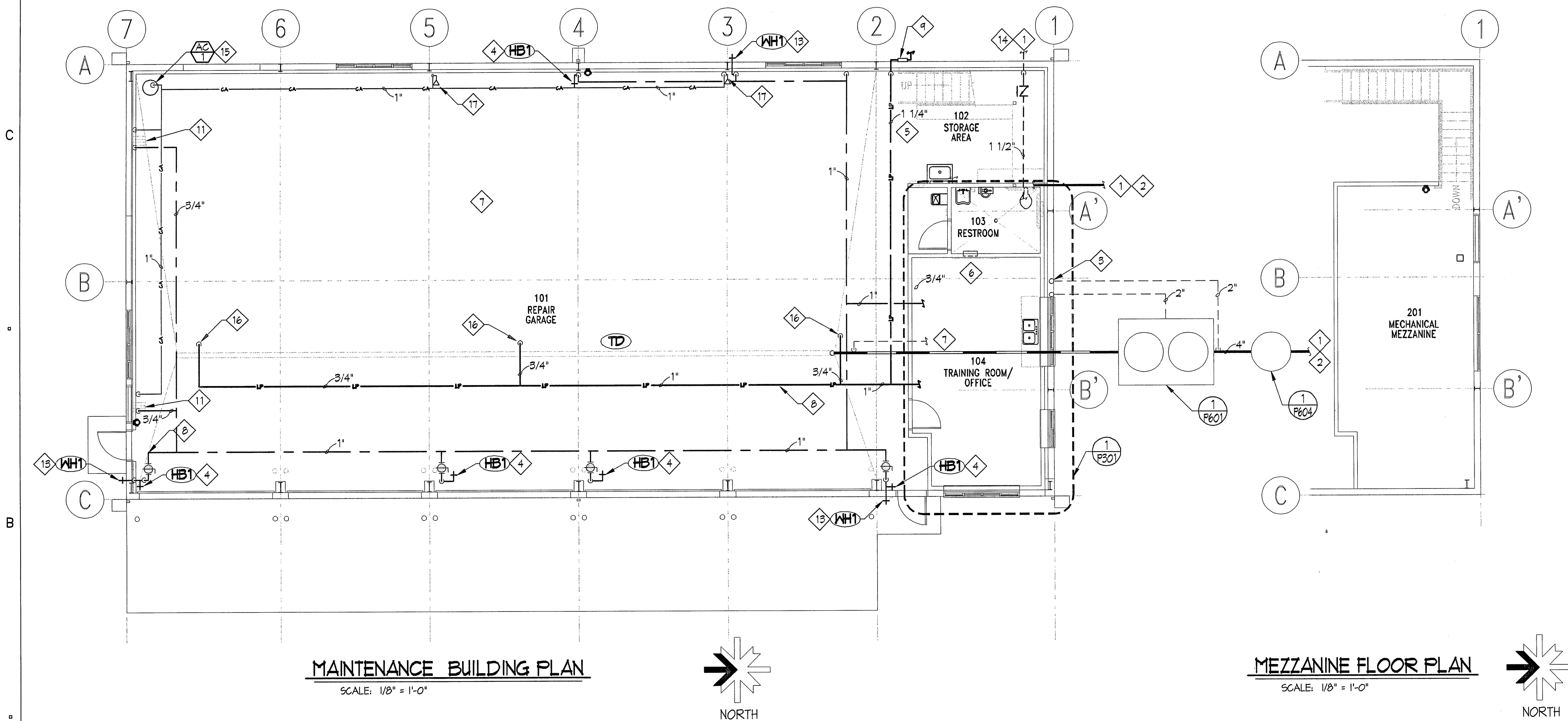
SHEET TITLE

PLUMBING
ENLARGEMENTS

P301

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D
C
B
A



KEY NOTES

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CLIENT



STATION #3437A
SR-44 @ M.P. 0.5 ±
GREENDALE UTAH

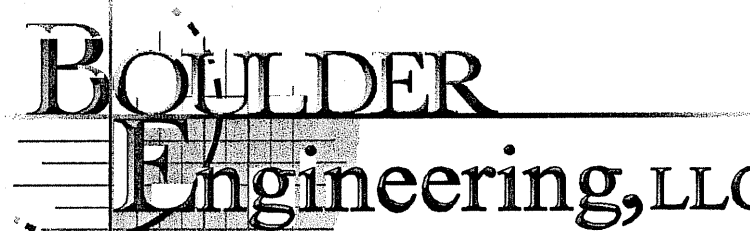
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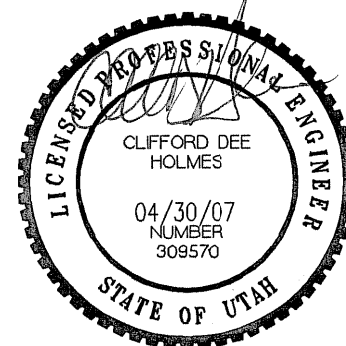
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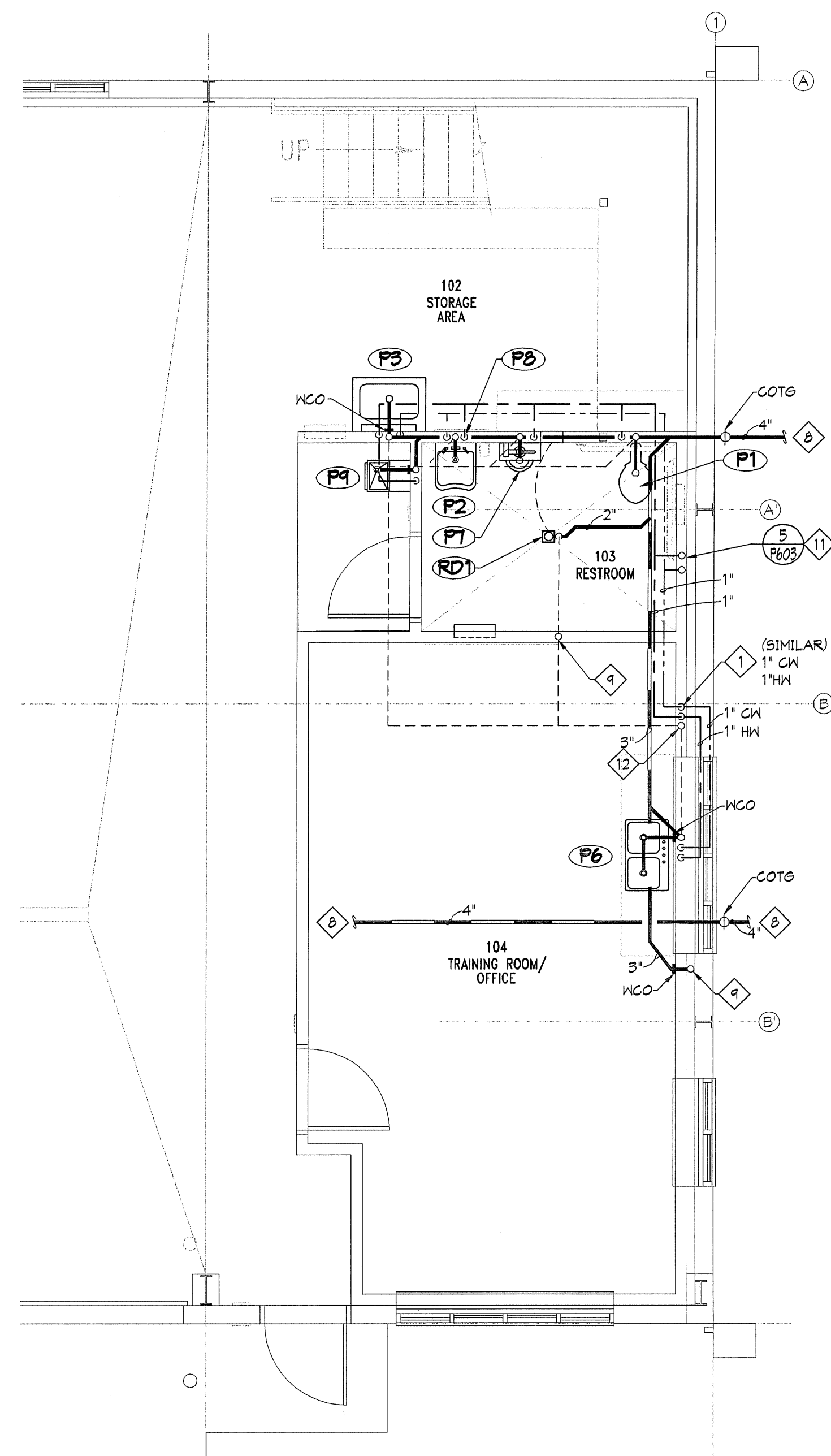
MARK	DATE	DESCRIPTION
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DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	LCM
CHECKED BY:	CDW
SCALE:	1/8"=1'-0"
DATE:	MAY 1, 2007

SHEET TITLE

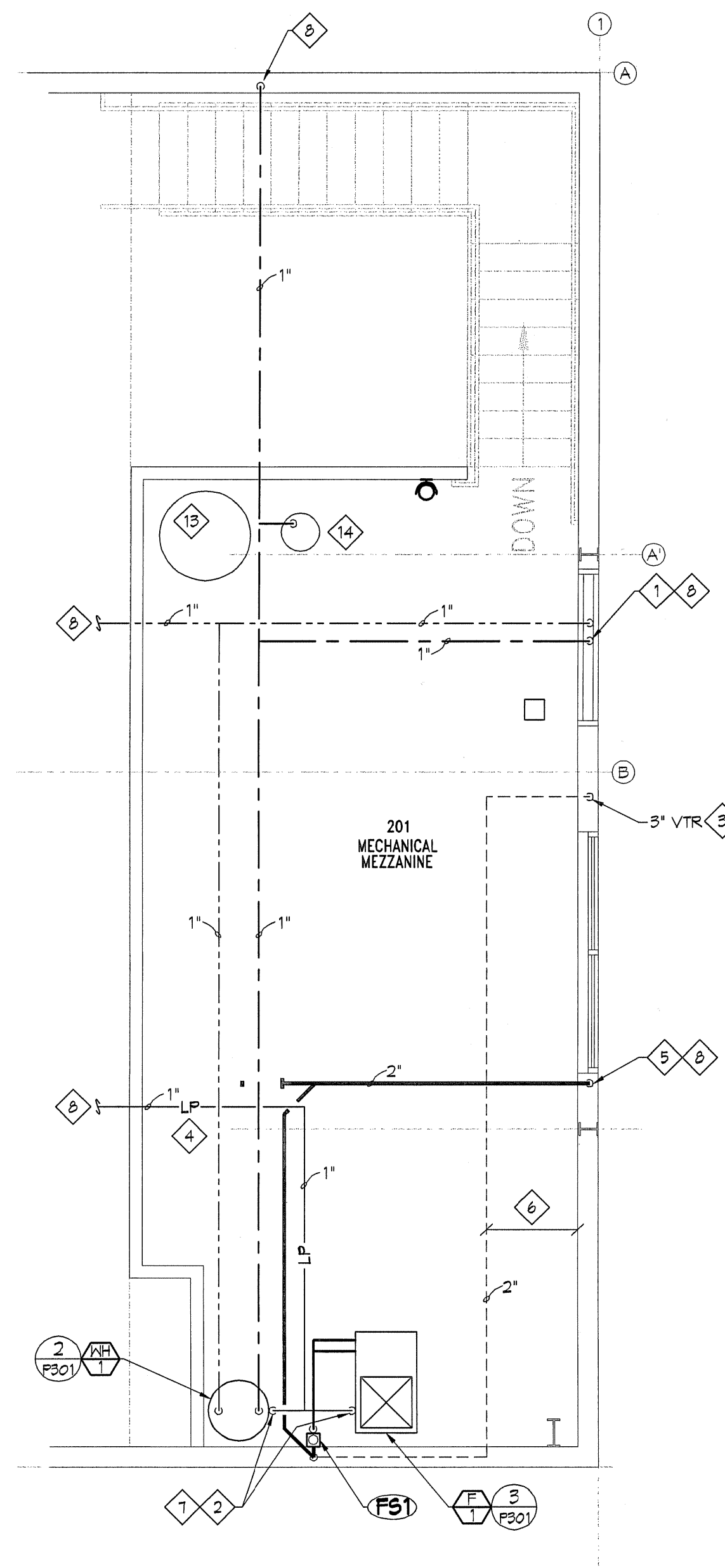
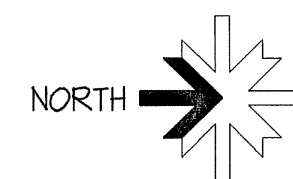
PLUMBING PLAN

P201



PLUMBING ENLARGEMENT
SCALE: 1/4" = 1'-0"

1
P301



MEZZANINE PLUMBING PLAN
SCALE: 1/4" = 1'-0"

2
P301



KEY NOTES

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CLIENT



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SR-44 @ M.P. 0.5 ±
GREENDALE UTAH

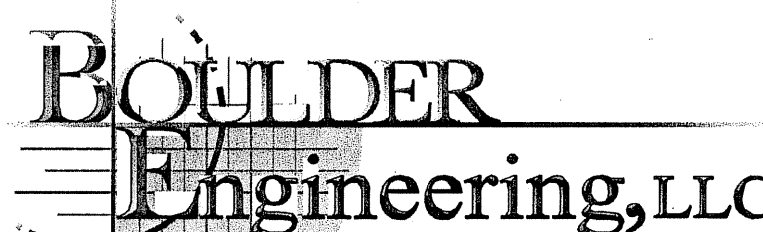
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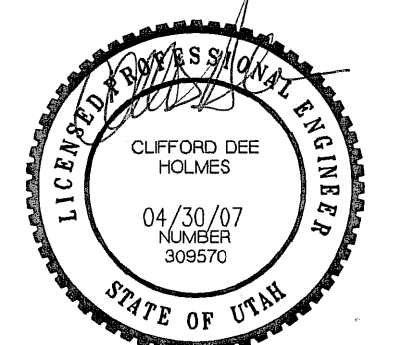
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MARK	DATE	DESCRIPTION

DFCM PROJECT NO: 07029900

ARCHIPLEX PROJECT NO: 0708.01

DRAWN BY: LCM

CHECKED BY: CDW

SCALE: 1/4" = 1'-0"

DATE: MAY 1, 2007

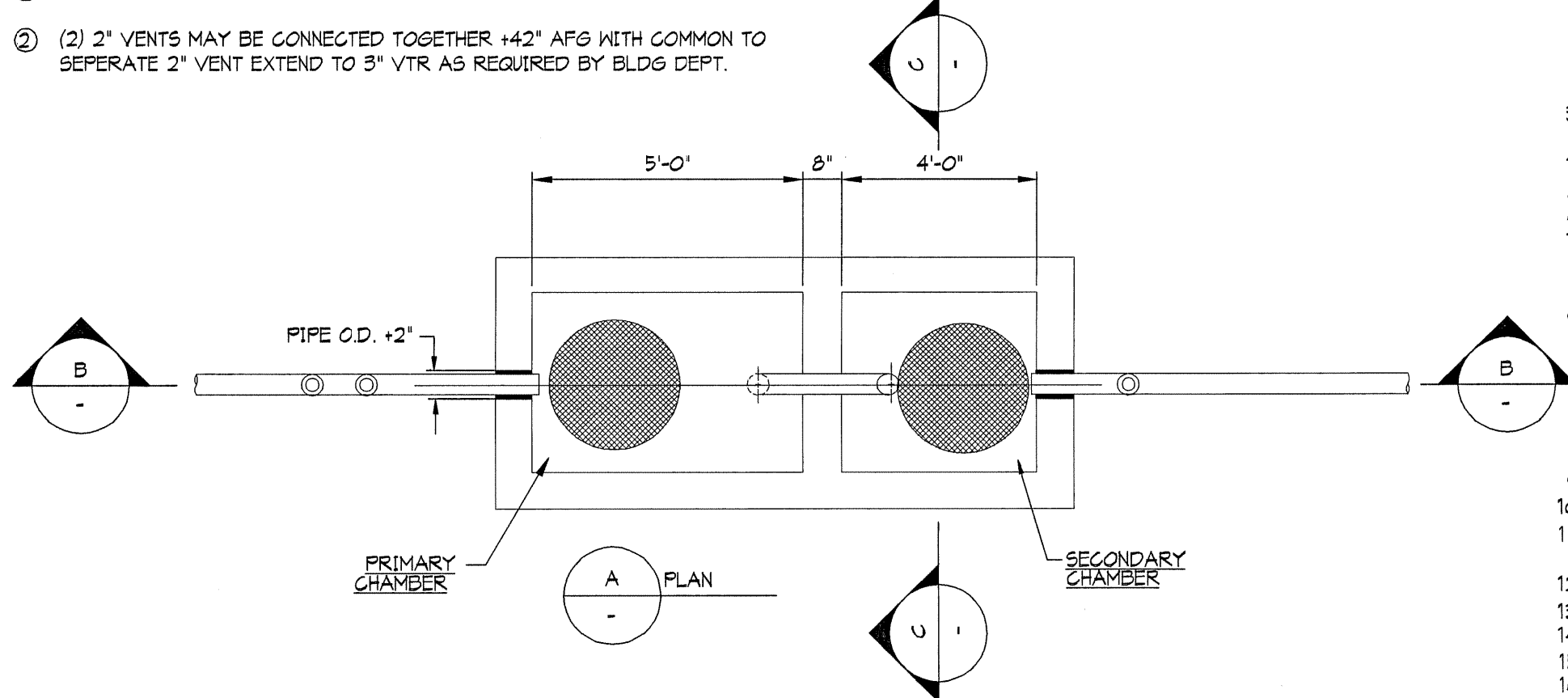
SHEET TITLE

PLUMBING
ENLARGEMENTS

P301

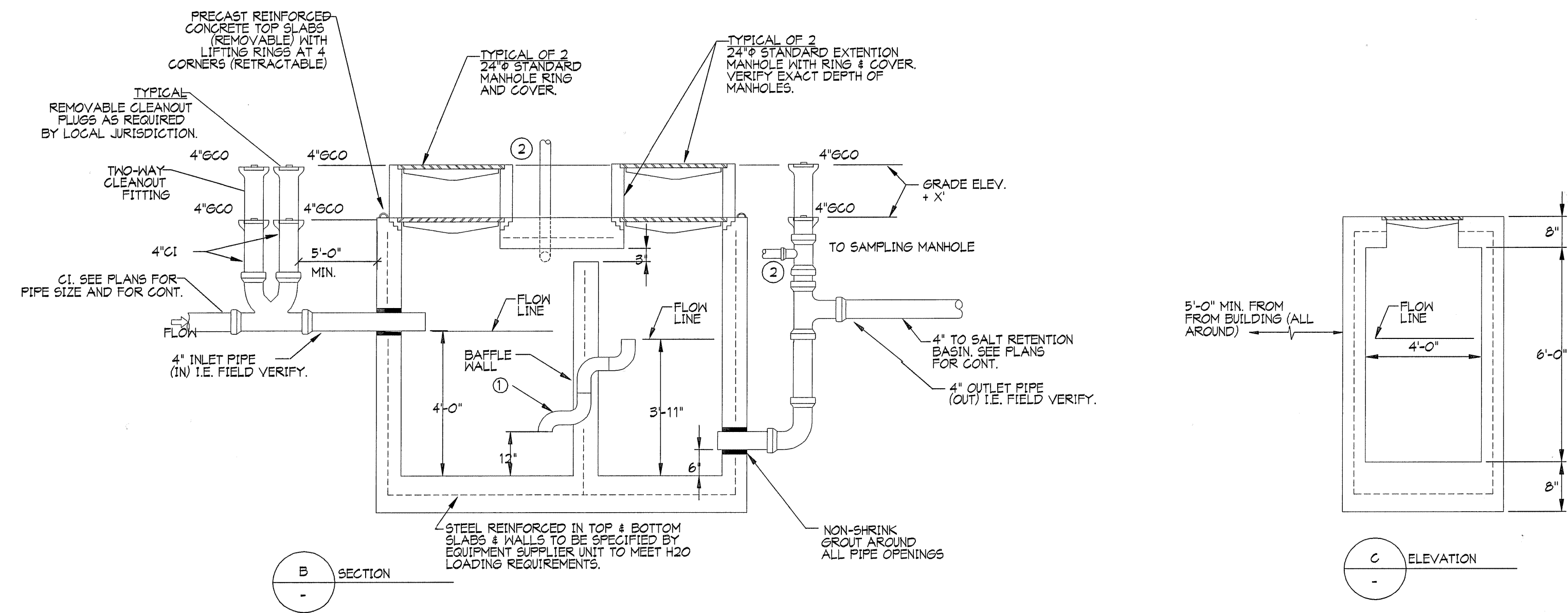
KEYED NOTES:

- ① C.I. PIPE SAME SIZE AS INLET PIPE.
② (2) 2" VENTS MAY BE CONNECTED TOGETHER #42" AFS WITH COMMON TO SEPERATE 2" VENT EXTEND TO 3" VTR AS REQUIRED BY BLDG DEPT.



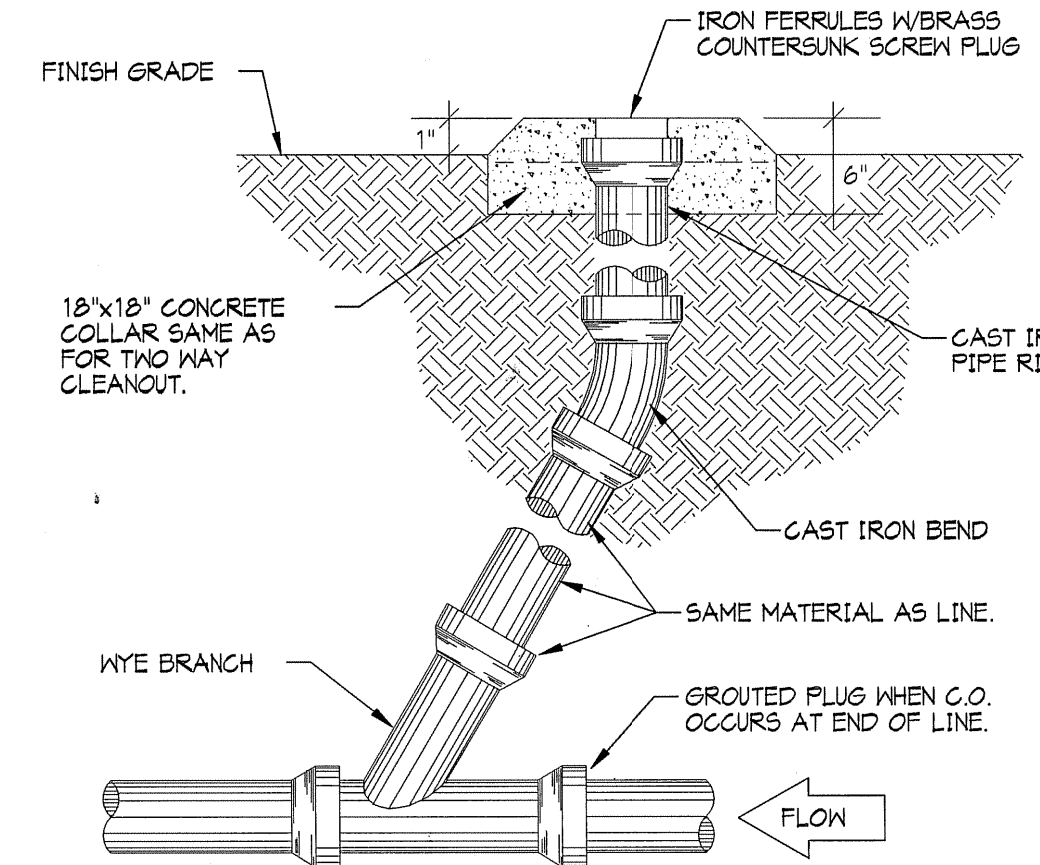
NOTES:

1. PIPING, CLEANOUT CONFIGURATION, SIZE AND TYPE OF PIPING MATERIAL AS PER CITY OR SANITARY DISTRICT. INSPECTION BY SOUTH VALLEY WATER RECLAMATION DISTRICT (SVWRP) PRIOR TO BACKFILLING IS REQUIRED.
2. INTERCEPTOR PIPING AND OTHER ASSOCIATED PIPING CHANGES THAT ARE NECESSARY TO INSTALL INTERCEPTOR MUST BE IN ACCORDANCE WITH LOCAL REGULATIONS.
3. INTERCEPTOR MUST BE PROPERLY VENTED IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE STANDARDS.
4. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
5. REINFORCEMENT STEEL SHALL BE ASTM A605 GRADE 60.
6. THE CONCRETE COVER OVER REINFORCEMENT STEEL SHALL BE A MINIMUM OF 1-1/2".
7. THE STRUCTURE SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF UTAH. THE DESIGN SHALL BE SUBMITTED FOR APPROVAL TO THE ARCHITECT PRIOR TO INSTALLATION.
8. THE STRUCTURE SHALL BE DESIGNED FOR THE FOLLOWING LOADING CRITERIA:
A. WALL DESIGN FOR A SATURATED EQUIVALENT FLUID AT-REST SOIL PRESSURE OF 40 PCF PLUS TRUCK SURCHARGES.
B. TRUCK LOADING USING AN AASHTO H-20 TRUCK LOAD.
9. MANWAY FRAME & COVER SHALL BE A TRAFFIC TYPE CASTING FOR H-20 TRUCK LOAD.
10. THE INLET PIPE SHALL BE AT AN ELEVATION 1" HIGHER THAN THE OUTLET PIPE.
11. WHERE THE SEWER LINE ALREADY EXIST, THE SEWER INVER INTO AND OUT OF THE INTERCEPTOR SHALL BE 4'-0" ABOVE THE INTERCEPTOR FLOOR.
12. THE BAFFLE IN THE INTERCEPTOR SHALL BE WITHIN 3" OF THE CEILING OF THE INTERCEPTOR.
13. COVERS SHALL BE CIRCULAR AND BE SOLID.
14. SANITARY WASTE FROM TOILETS MUST NOT BE PLUMBED THROUGH THE INTERCEPTOR.
15. INTERCEPTOR MUST BE LOCATED IN SUCH A MANNER THAT IT IS READILY ACCESSIBLE FOR CLEANING.
16. FIELD VERIFY INVERT ELEVATIONS OF INLET AND OUTLET PIPING PRIOR TO INSTALLING INTERCEPTOR.
17. CONTRACTOR SHALL OBTAIN OFFICIAL LOCAL JURISDICTION WATER RECLAMATION DISTRICT INTERCEPTOR DESIGN AND INSTALL PER THEIR REQUIREMENTS.



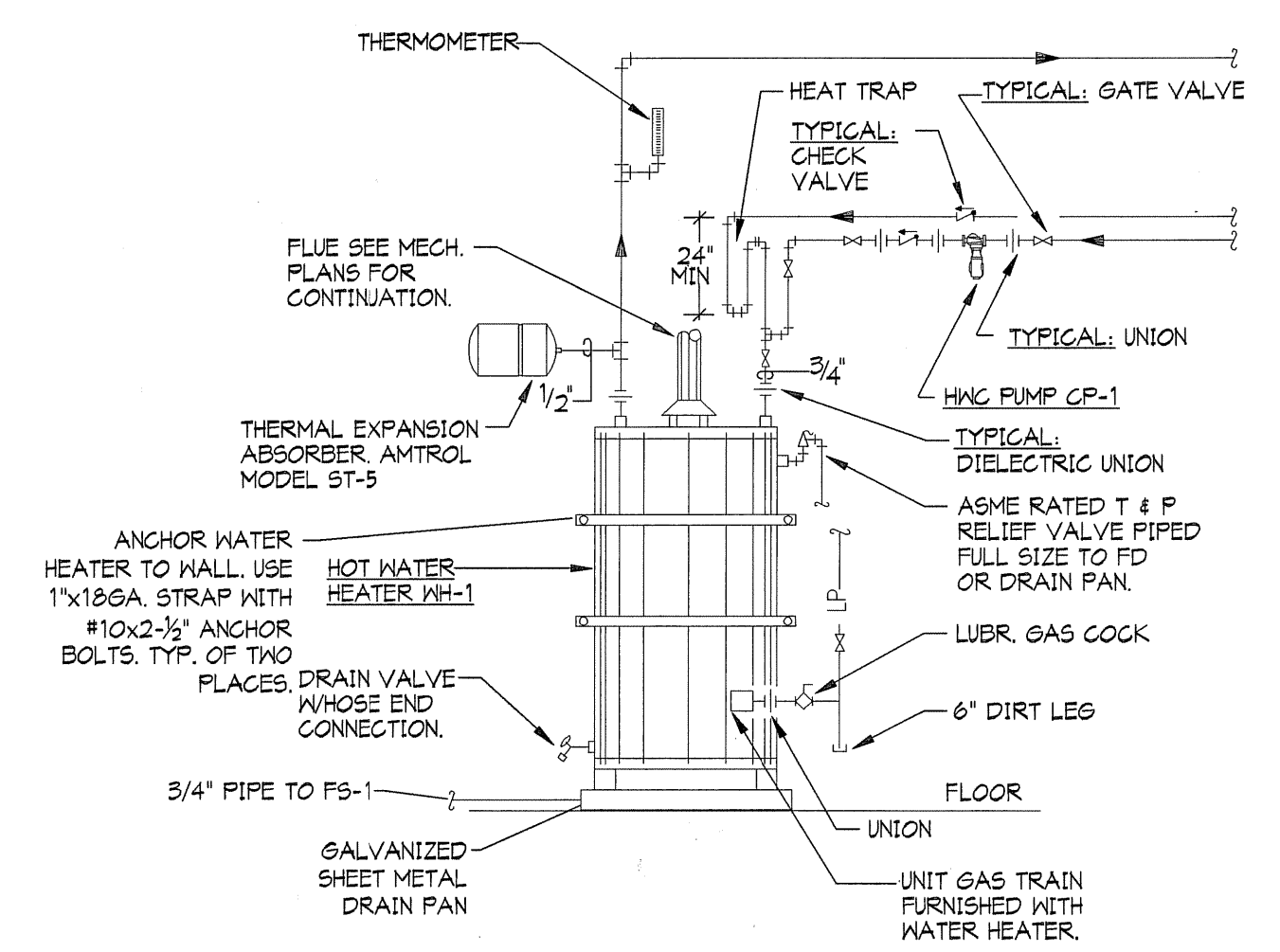
1000 GALLON GREASE INTERCEPTOR DETAIL-2 COMPARTMENT

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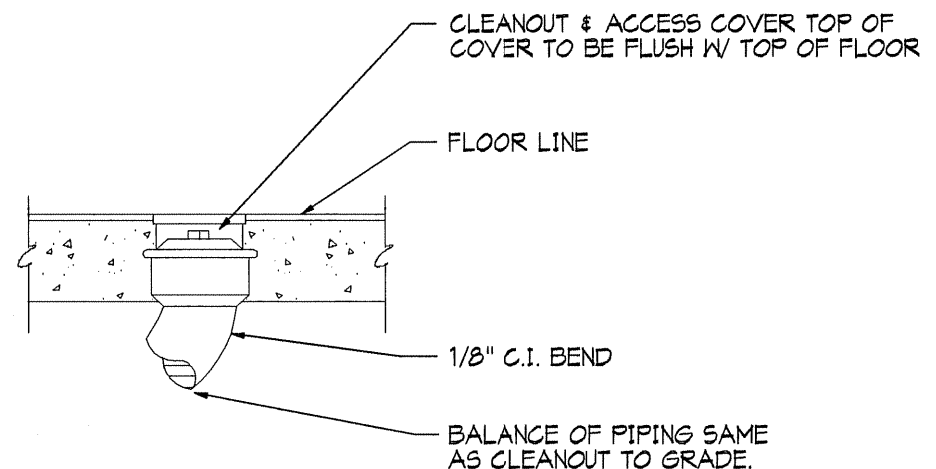
EXTERIOR CLEANOUT DETAIL

SCALE NO SCALE 1



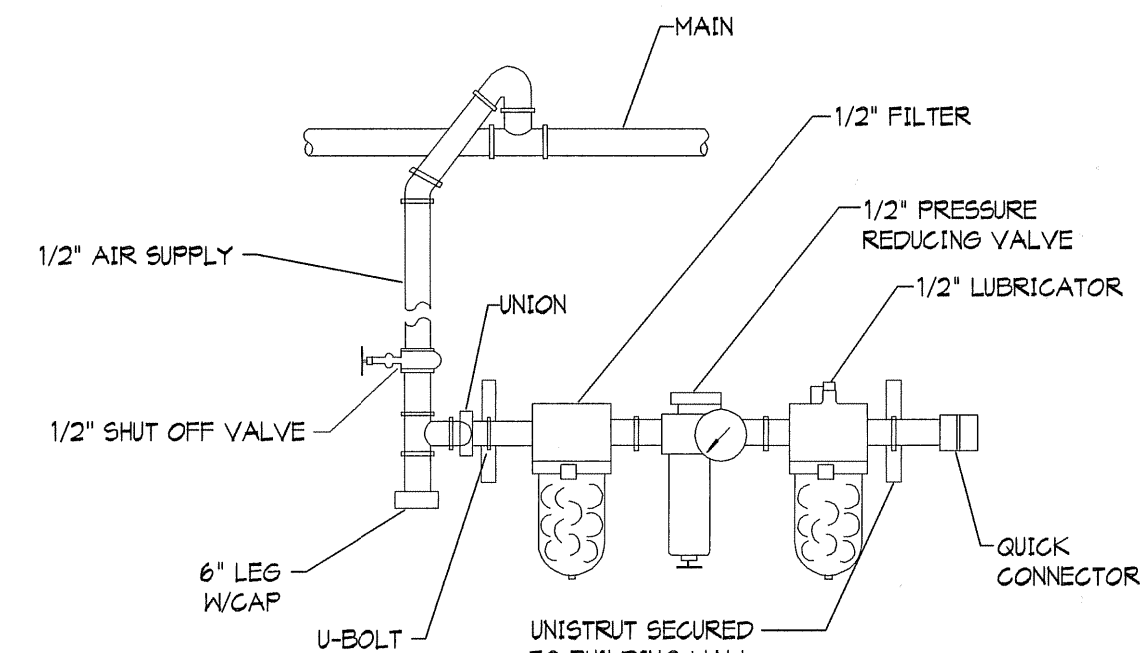
LIQUID PROPANE FIRED WATER HEATER

SCALE NO SCALE 2



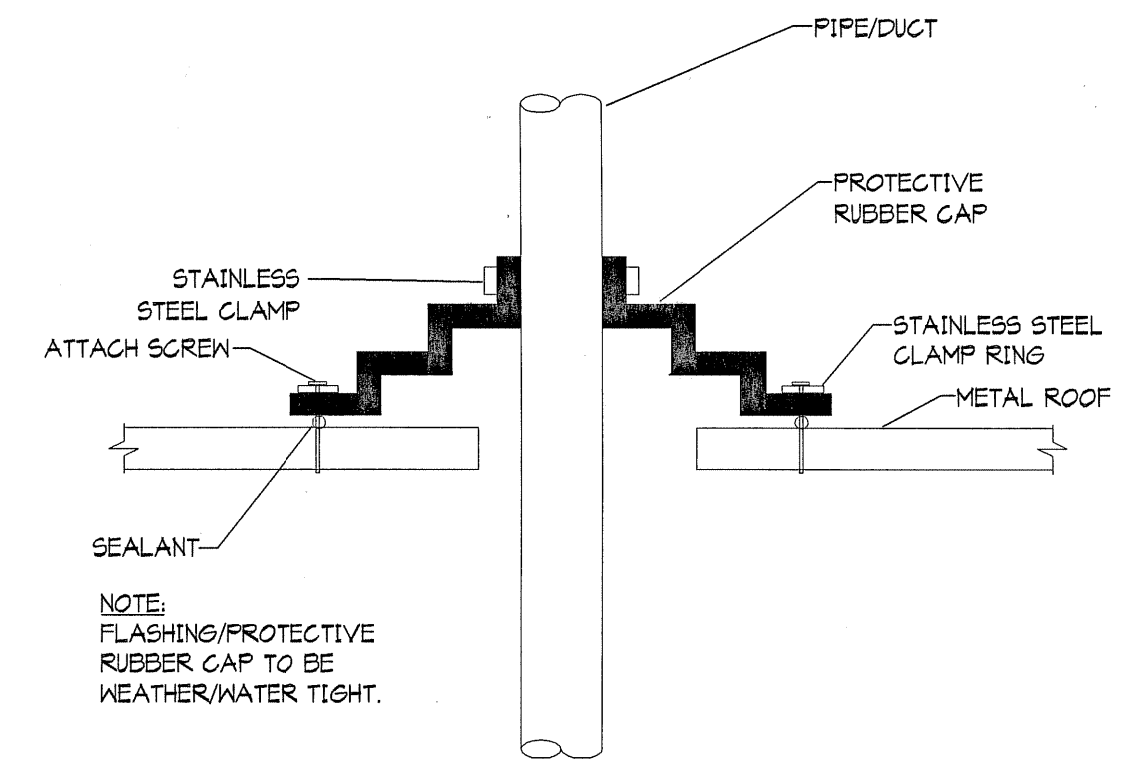
FLOOR CLEANOUT

SCALE NO SCALE 6



COMPRESSED AIR OUTLET CONNECTION DETAIL

SCALE NO SCALE 5



METAL ROOF PENETRATION DETAIL

SCALE NO SCALE 3

CLIENT



STATION #3437A
SR-44 @ M.P. 0.5 ±
GREENDALE UTAH

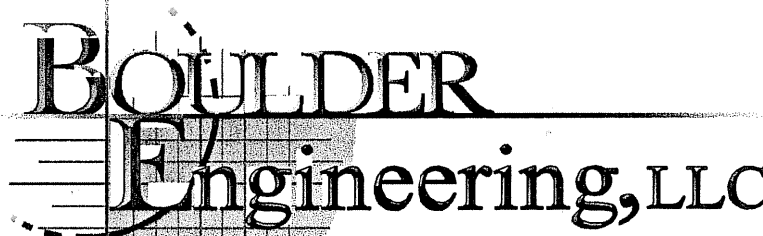
DESIGNER



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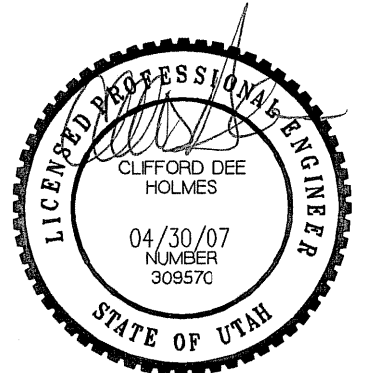
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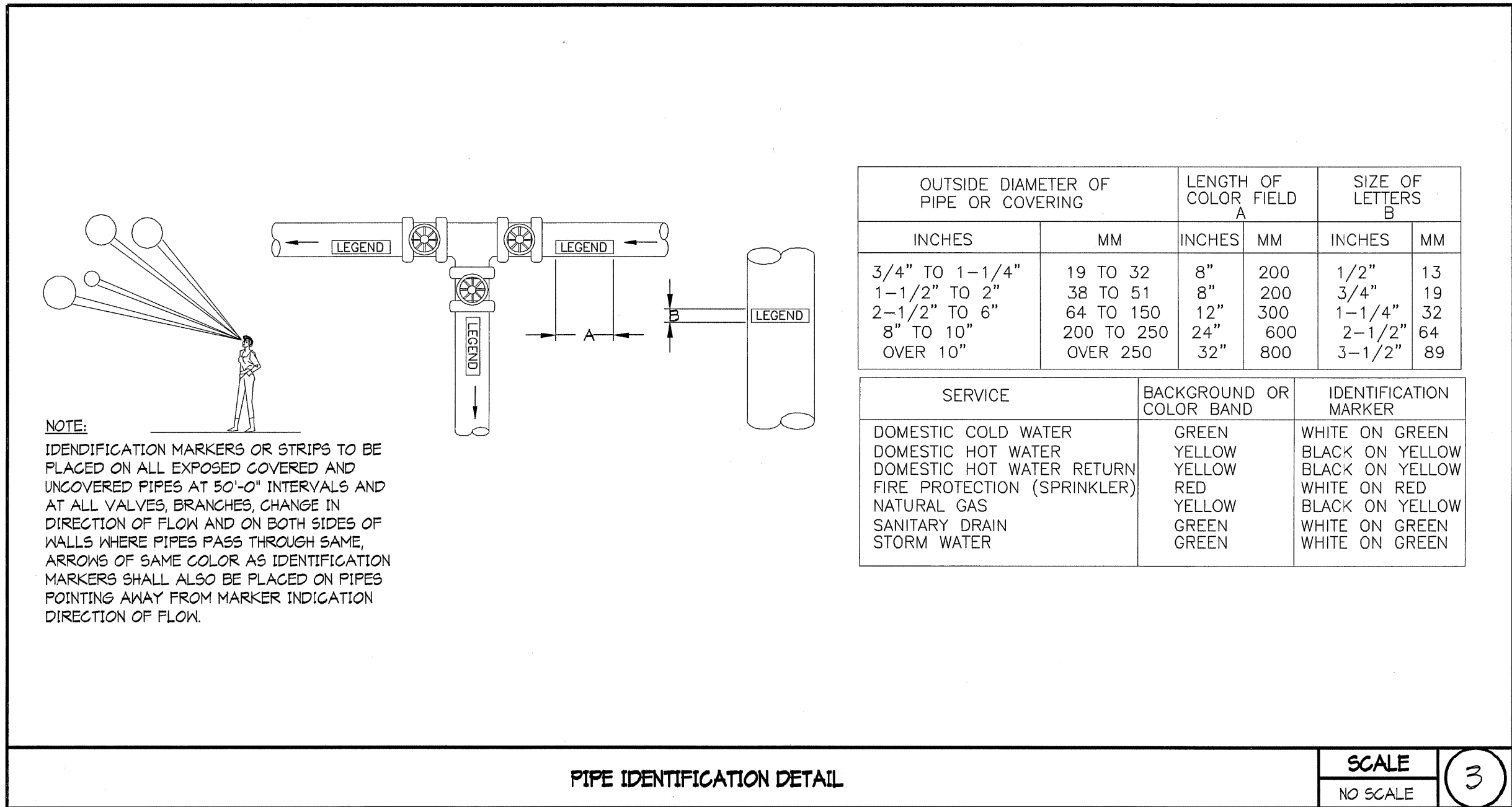
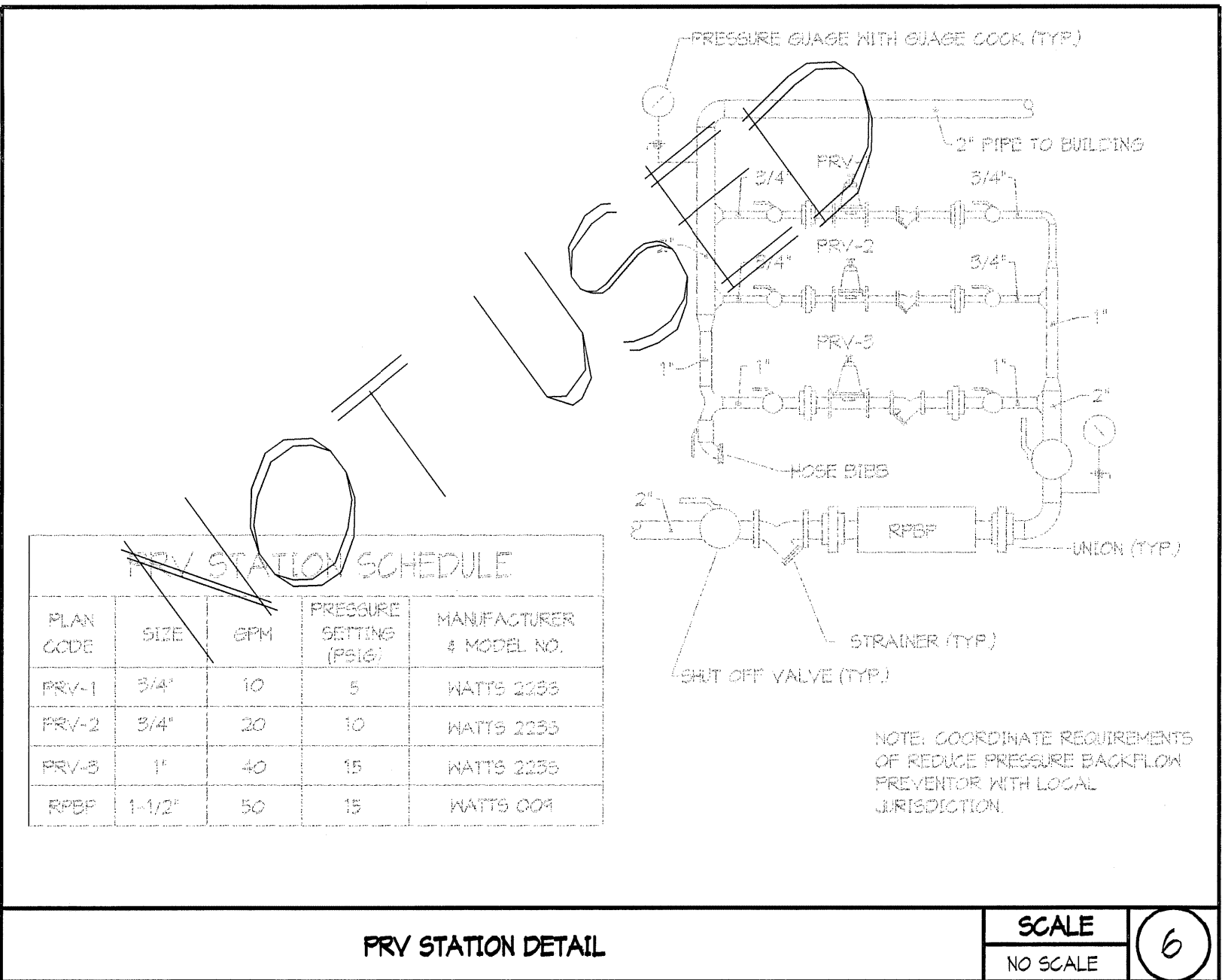
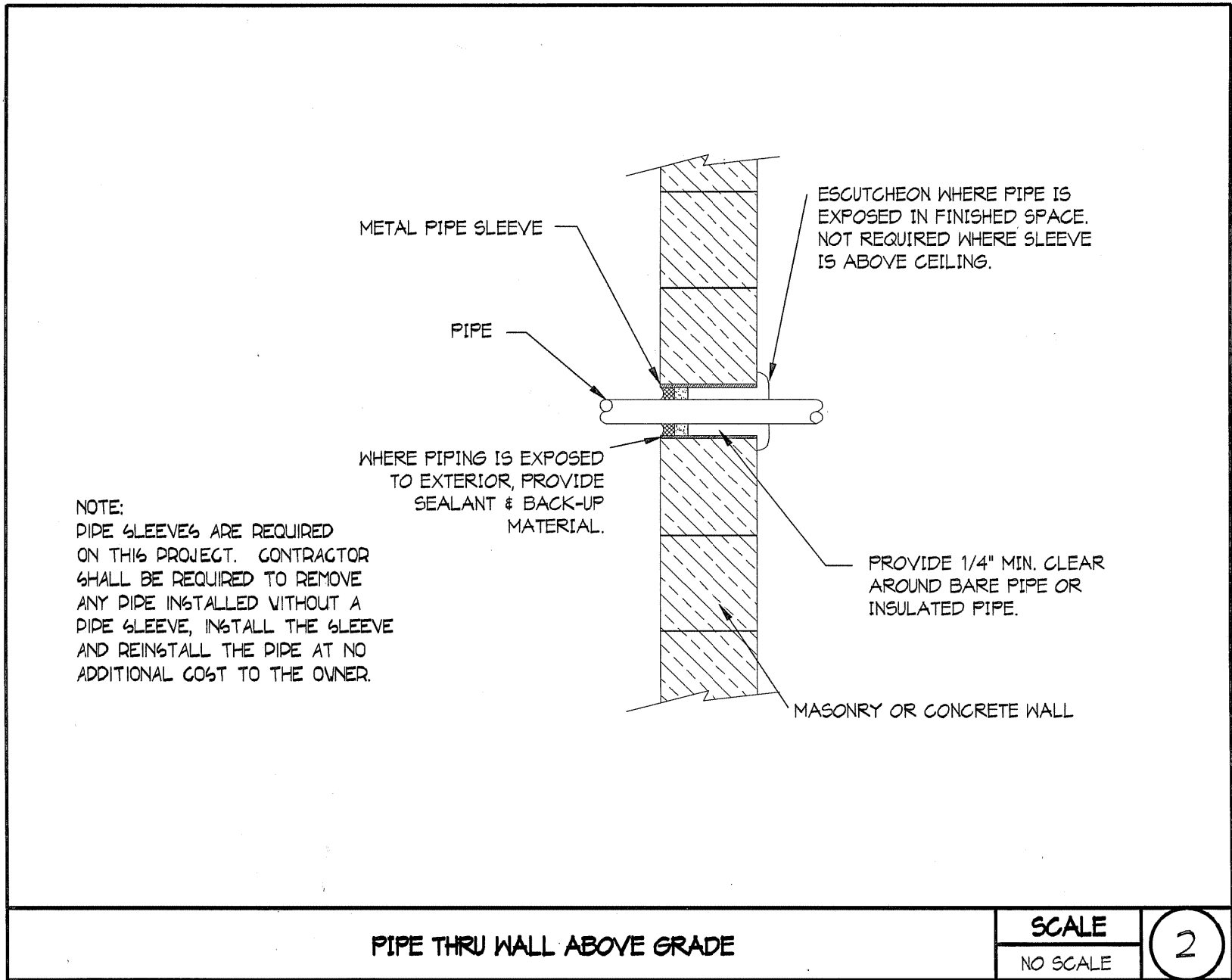
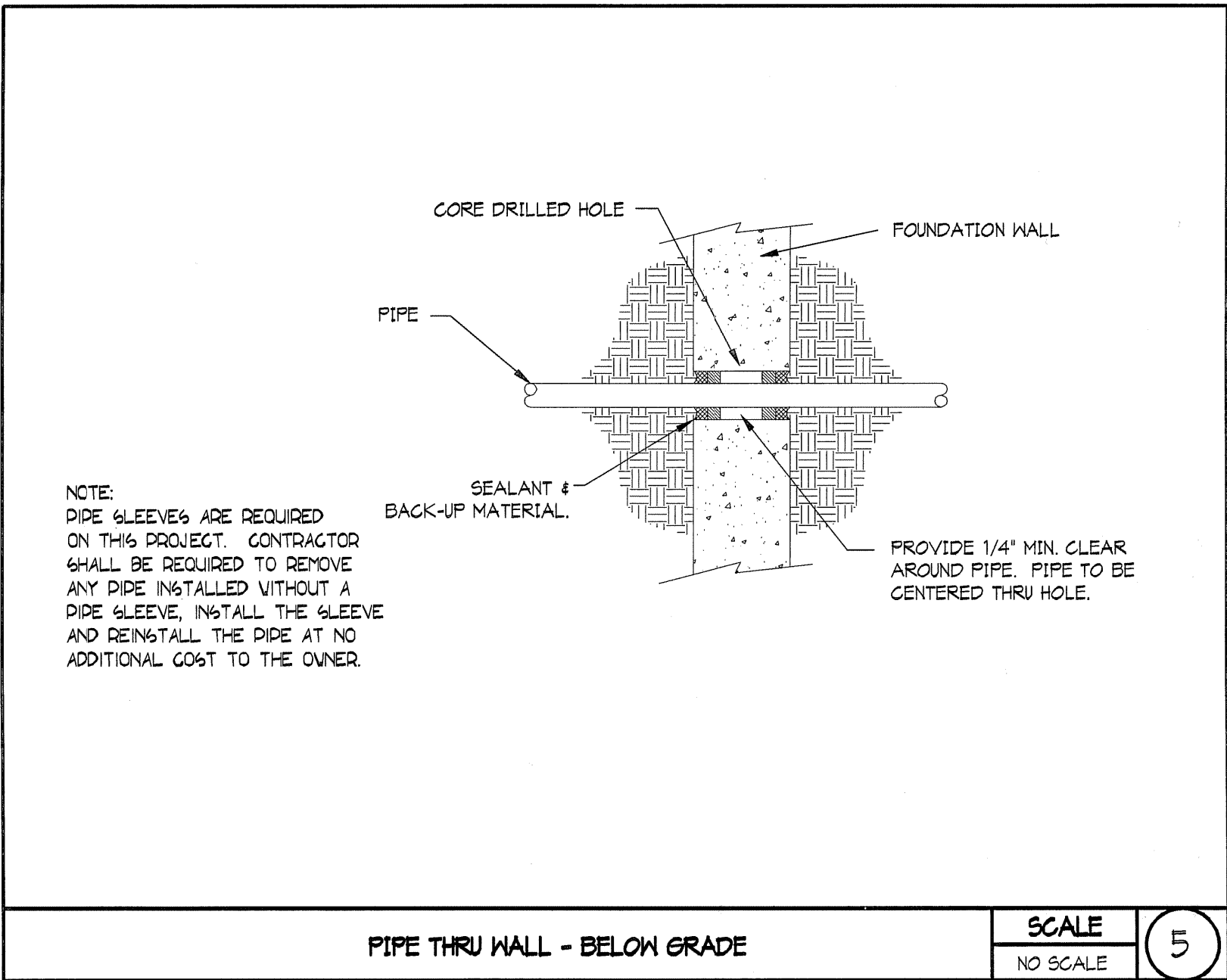
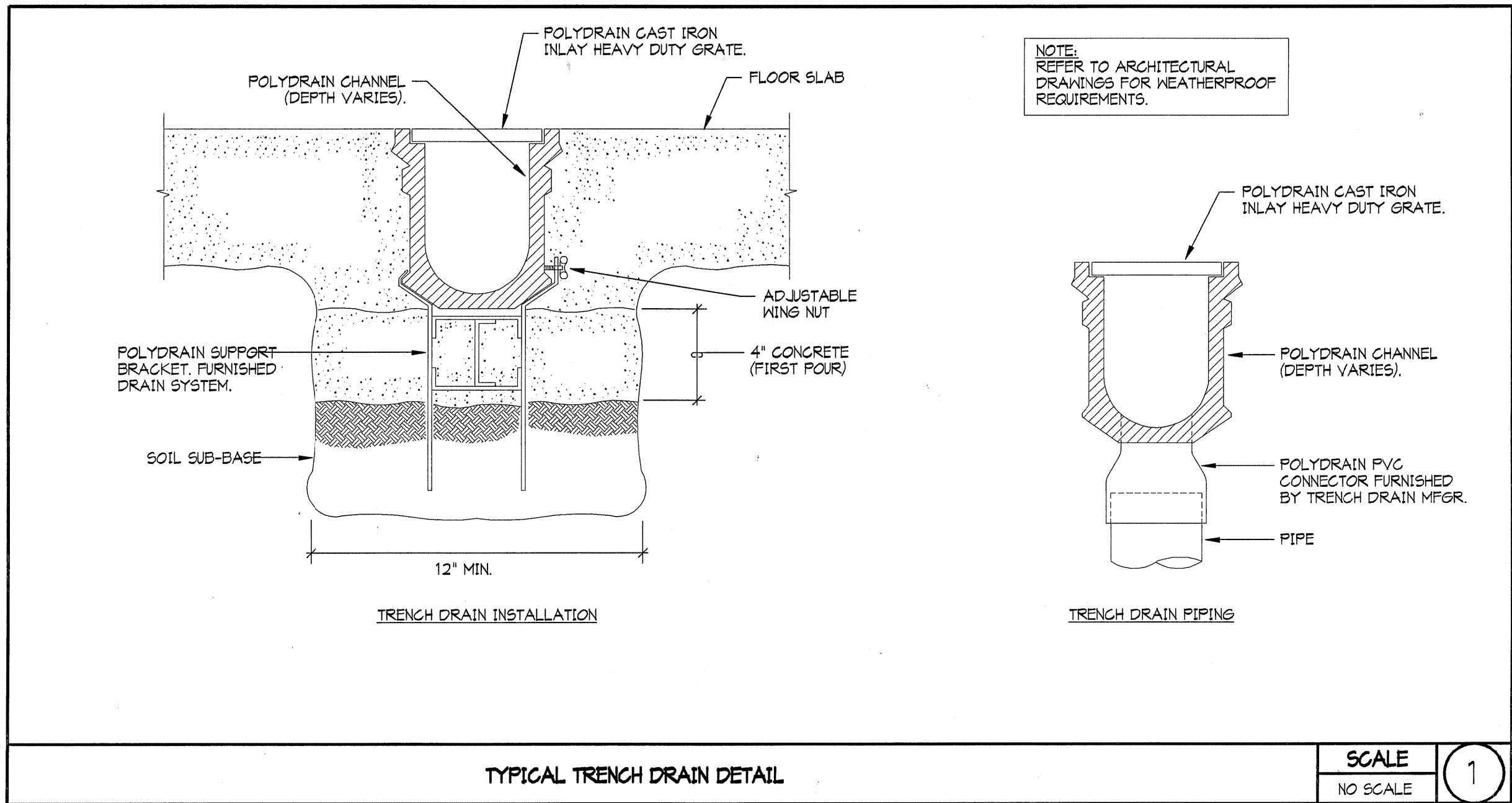
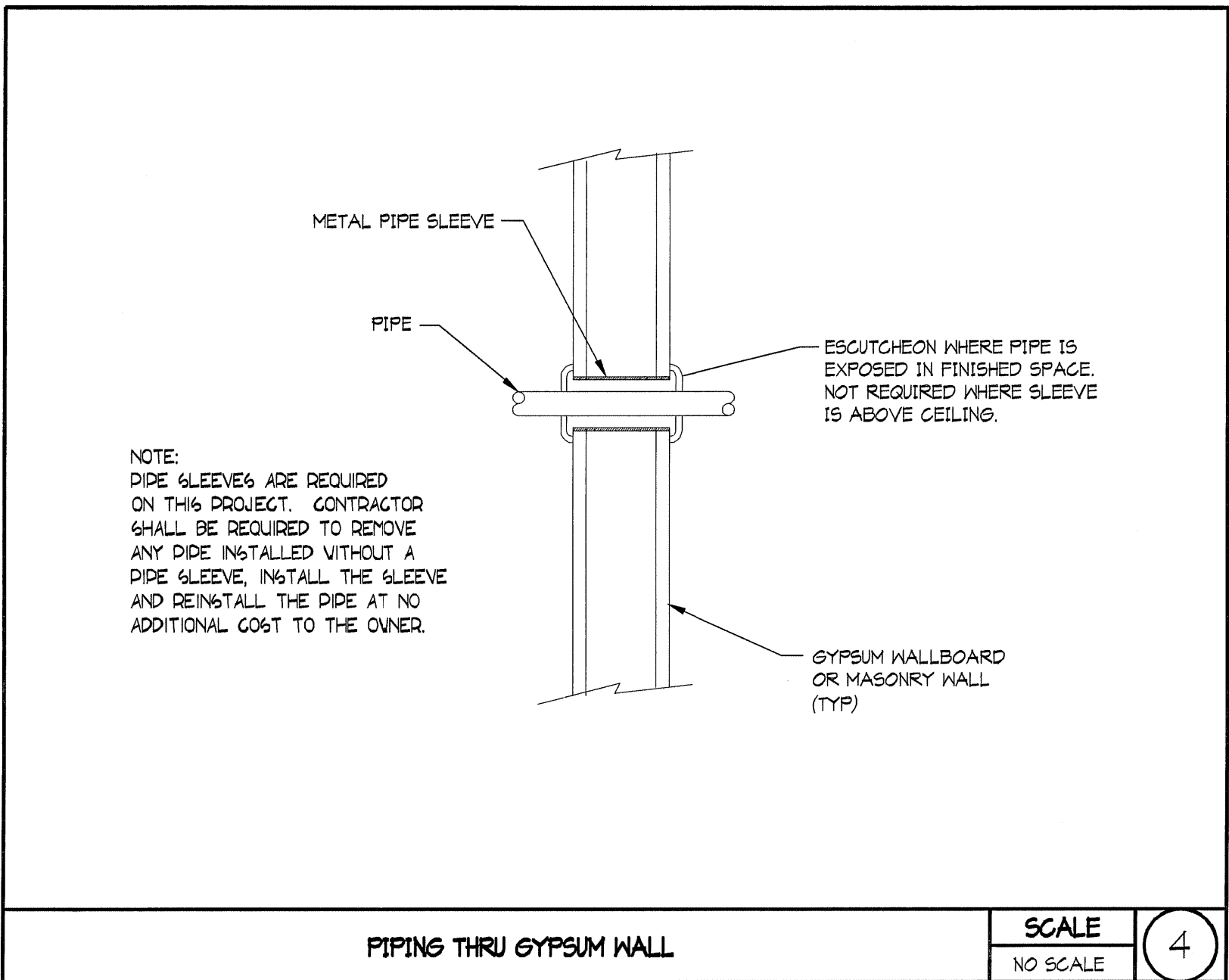
MARK	DATE	DESCRIPTION
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DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	LCM
CHECKED BY:	CDW
SCALE:	NONE
DATE:	MAY 1, 2007

SHEET TITLE

PLUMBING DETAILS

P601



CLIENT

UDOT
CONNECTING COMMUNITIES

STATION #3437A
SR-44 @ M.P. 0.5 ±
GREENDALE UTAH

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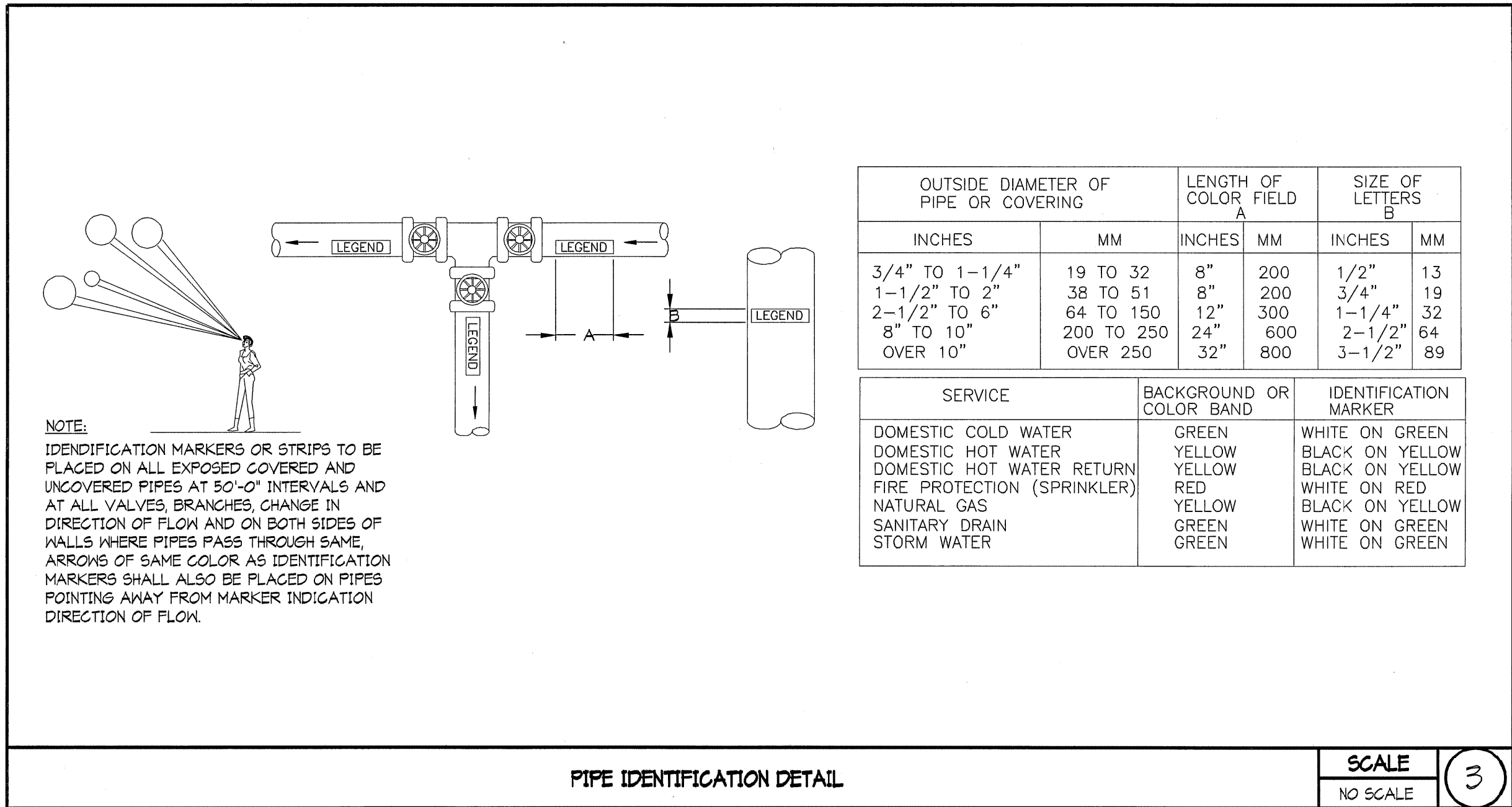
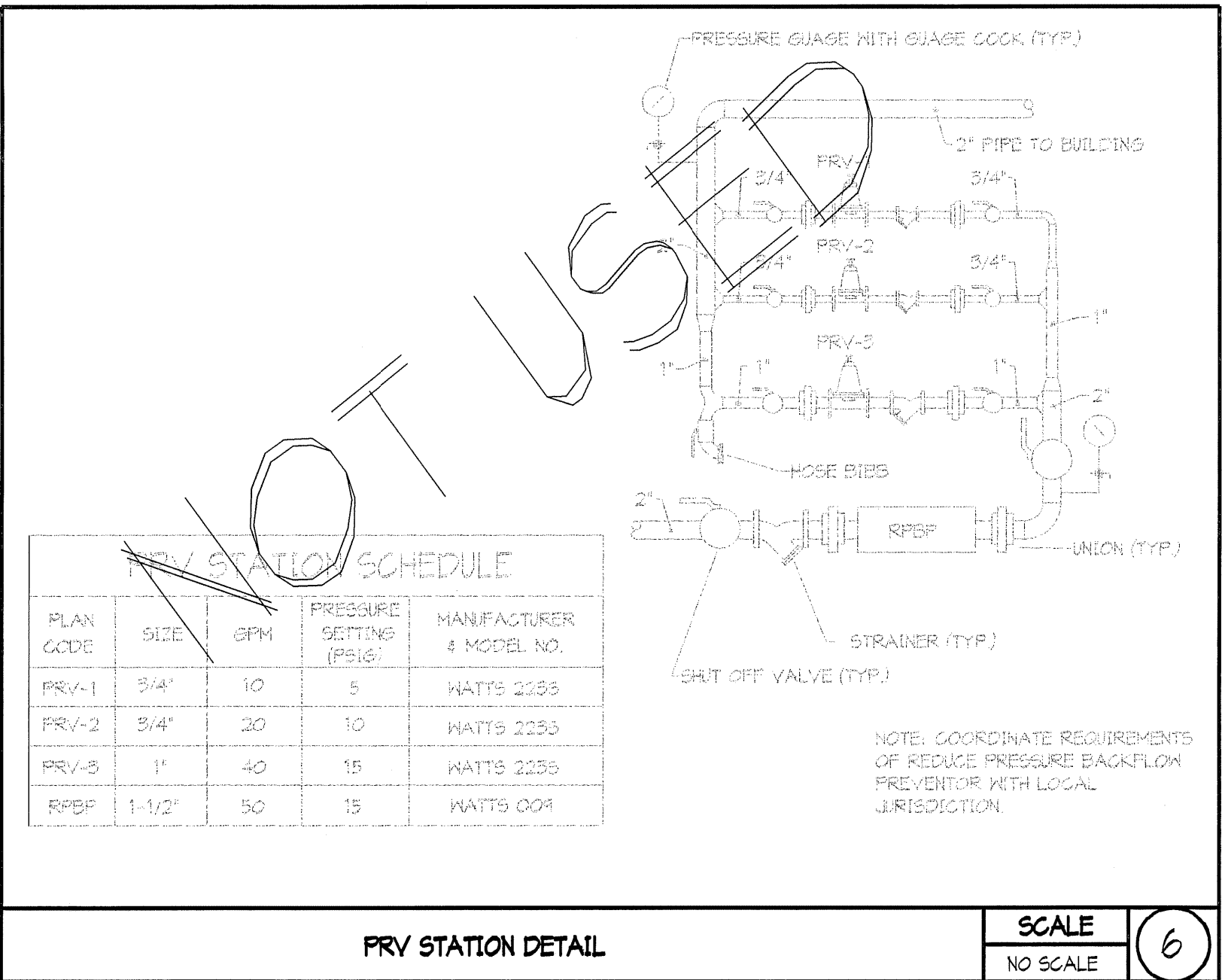
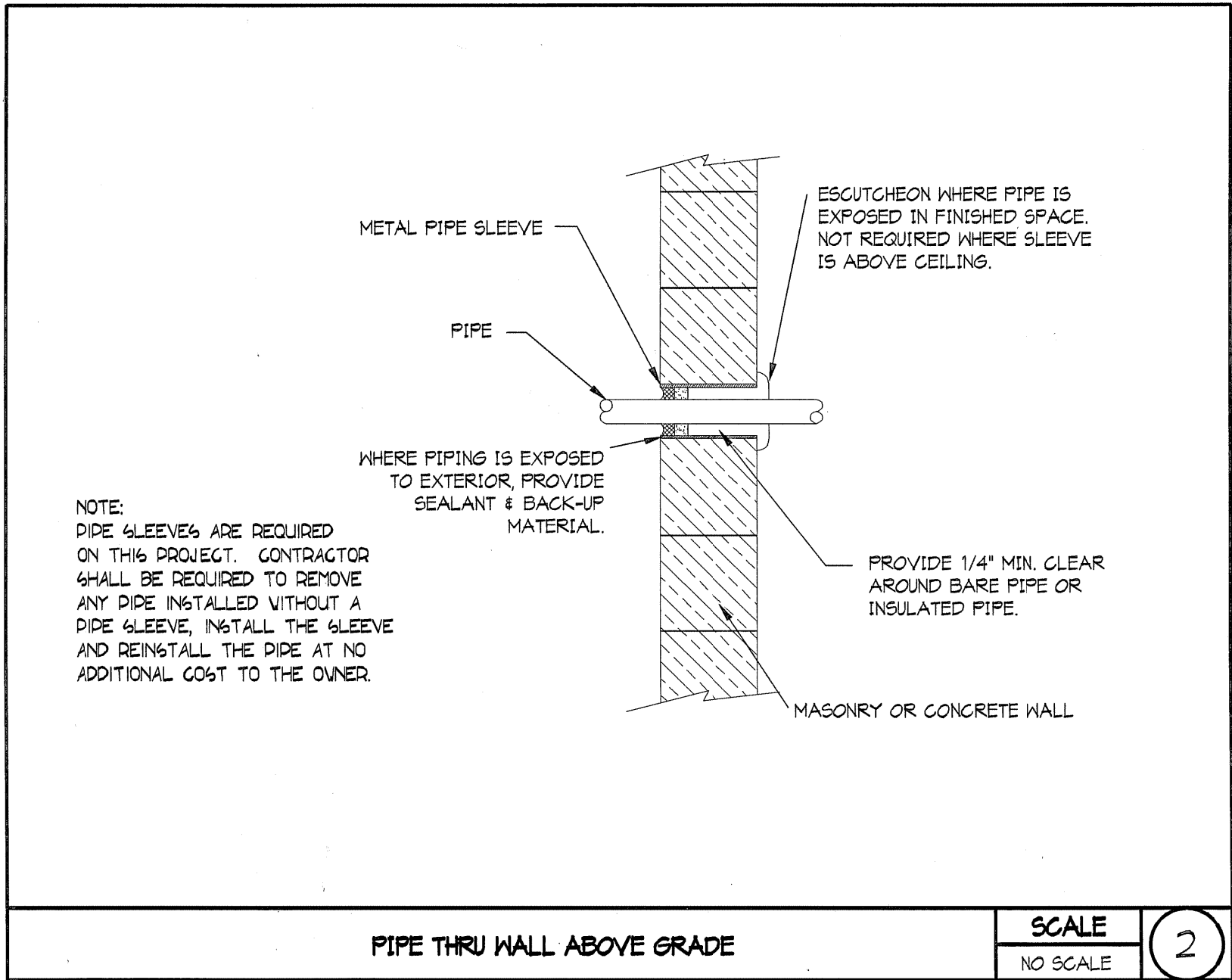
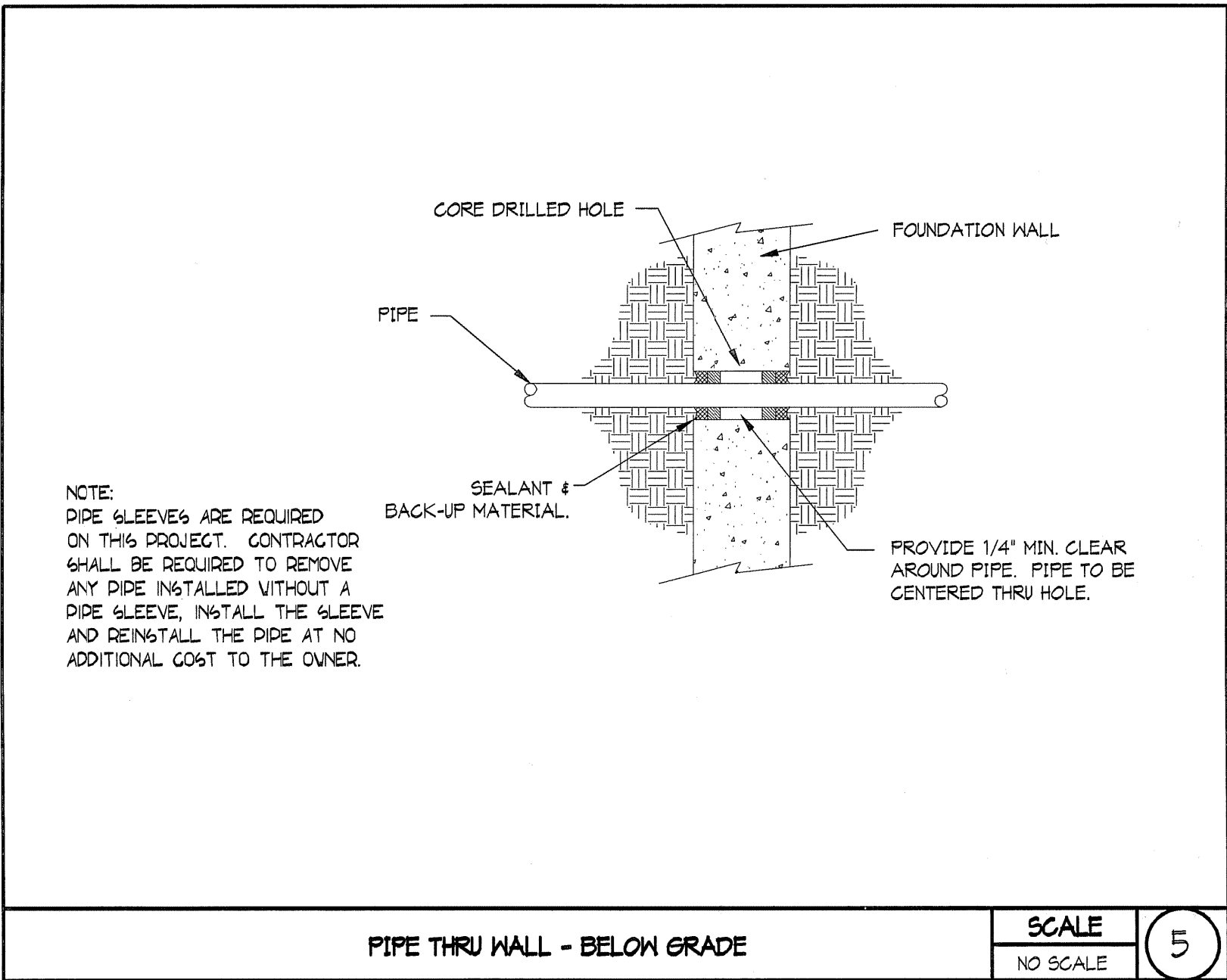
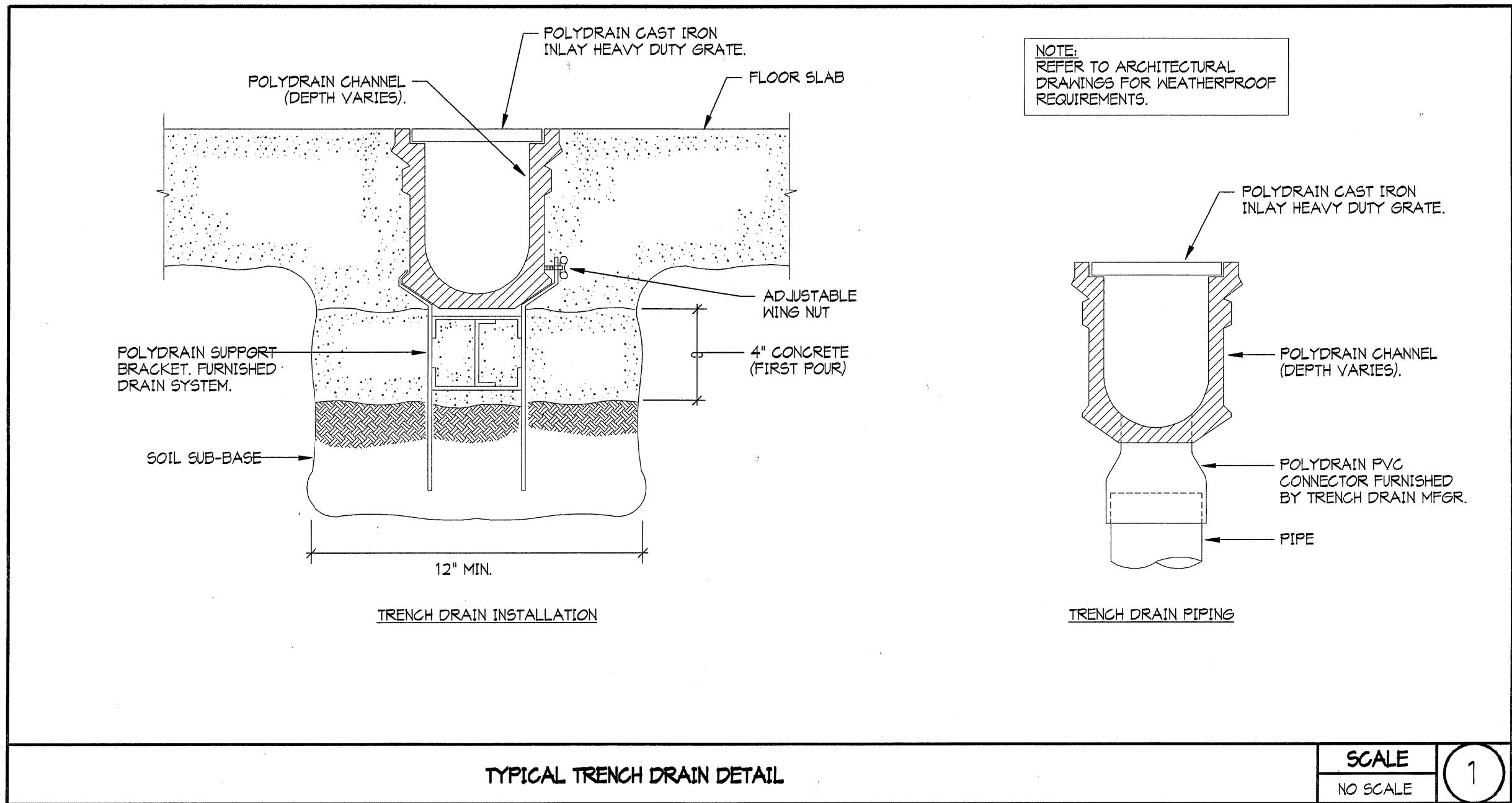
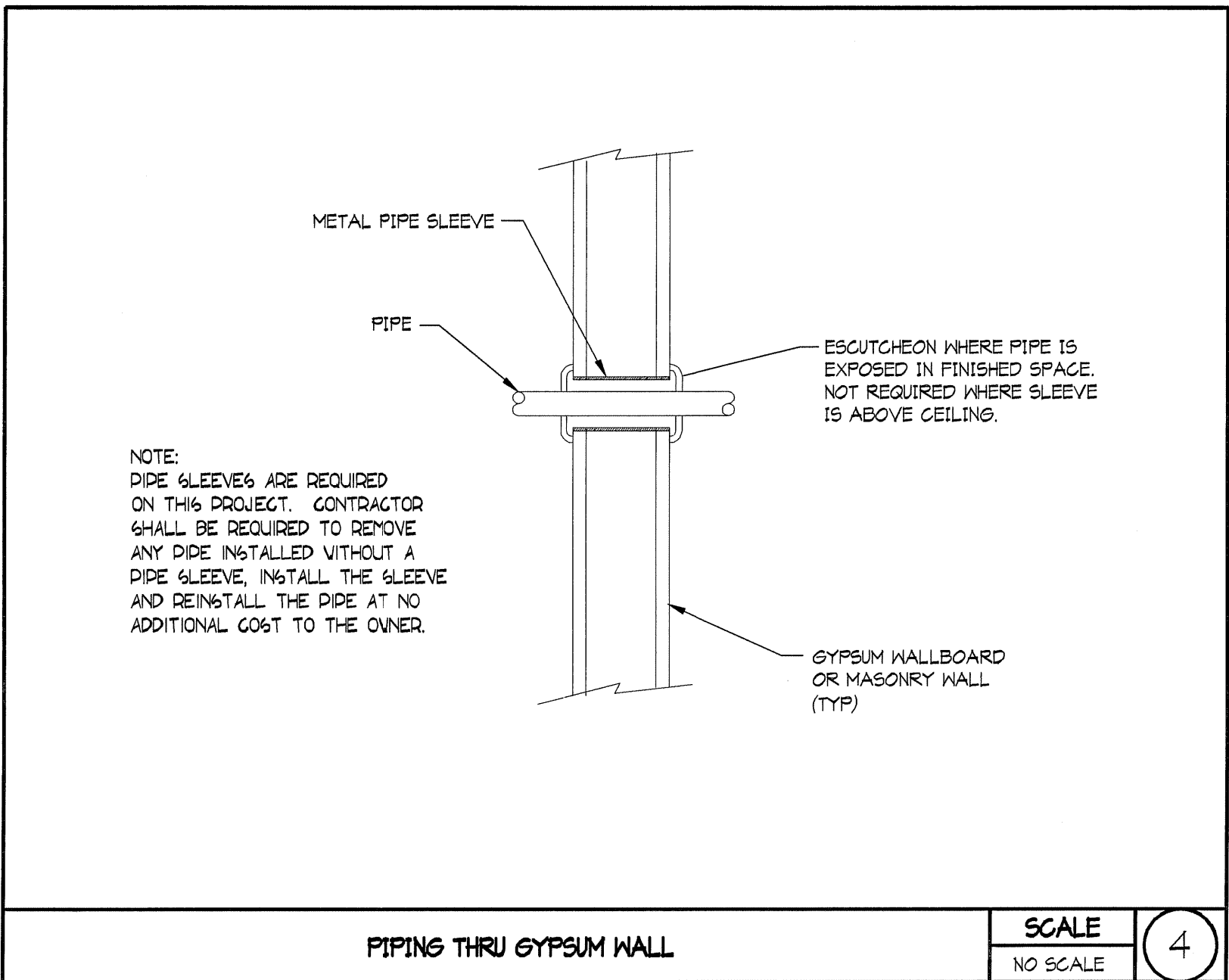
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	05/01/07	CONSTRUCTION DOCUMENTS

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ARCHIPLEX PROJECT NO: 0708.01
DRAWN BY: LCM
CHECKED BY: CDW
SCALE: NONE
DATE: MAY 1, 2007

SHEET TITLE

PLUMBING DETAILS

P602



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CONNECTING COMMUNITIES

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SR-44 @ M.P. 0.5 ±
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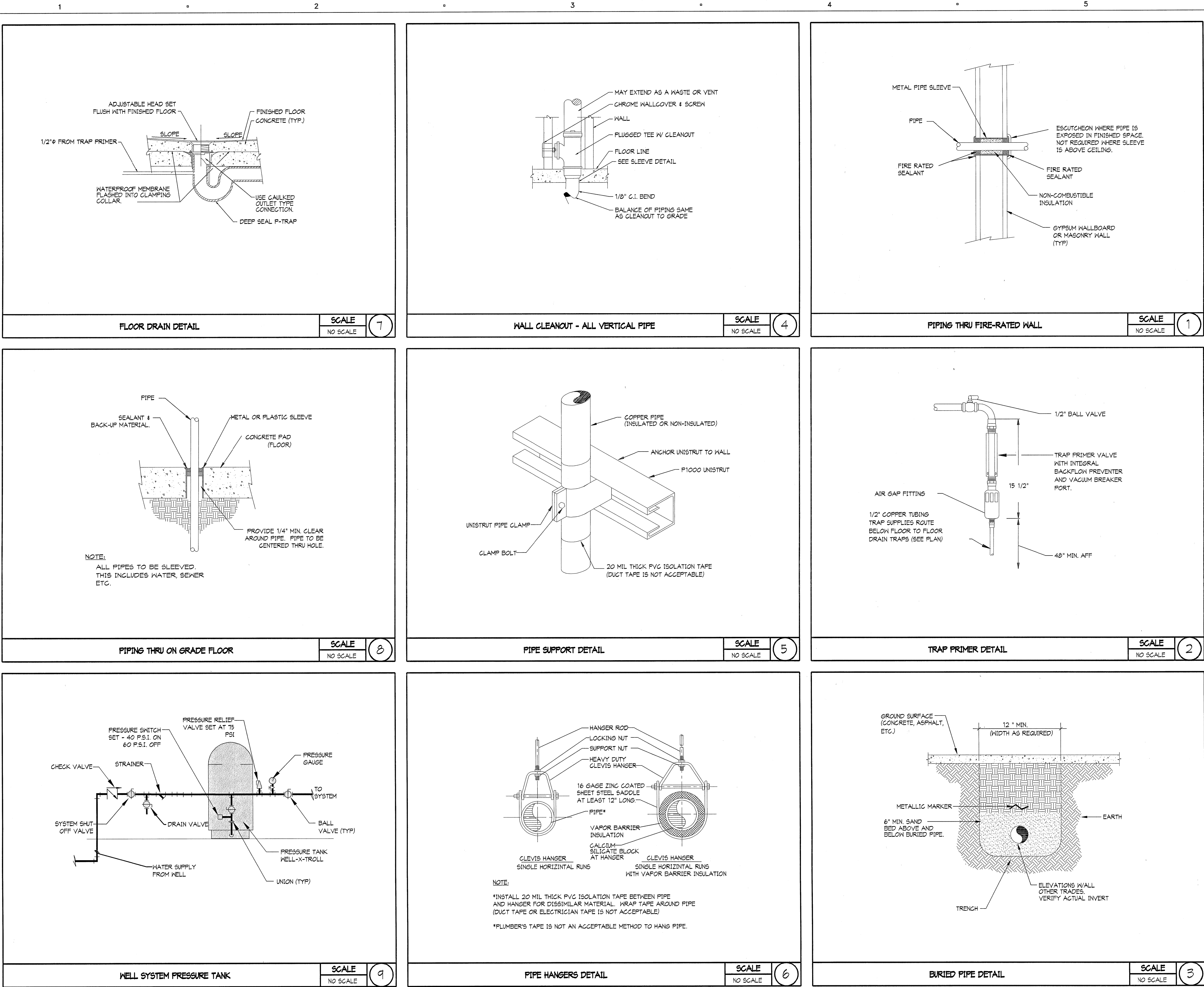
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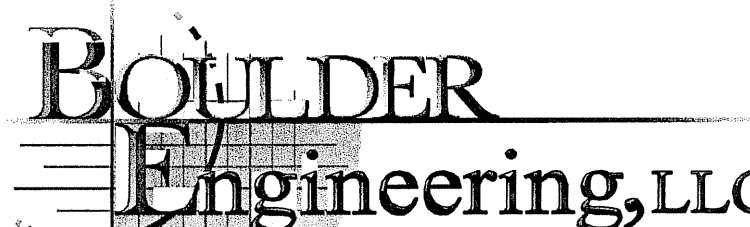
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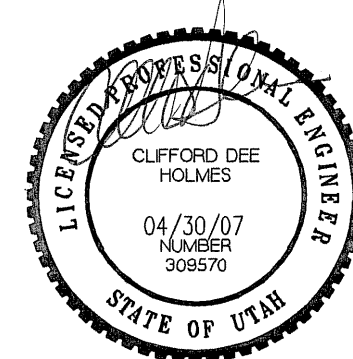
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B

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ELECTRICAL SYMBOL SCHEDULE					
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING		NOTES	
	FLUORESCENT LIGHT FIXTURE			(1)	(2) (3)
	EXIT LIGHT FIXTURE - WALL MOUNT			(1)	(2) (4) (5)
	WALL LIGHT FIXTURE			(1)	(2)
	SINGLE POLE SWITCH			(6)	
	THREE WAY SWITCH			(6)	
	MOTION SENSING SWITCH			(7)	
	THERMOSTAT				
	DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE			(6)	
	DUPLEX CONVENIENCE OUTLET - GFI			(6)	
	SINGLE CONVENIENCE OUTLET			(6)	
	DOUBLE DUPLEX OUTLET			(6)	
	SINGLE PHASE SPECIAL OUTLET	NEMA - SUBSCRIPT MARKS TYPE		(6)	
		VOLTS	AMPS	OUTLET	FUSE
		1	15	30	5-30P 3W
		2	250	20	6-20P 6-20P 3W
		3	250	50	10-30P 3W
		4	250	60	
		(15)			
	JUNCTION BOX			(12)	
	JUNCTION BOX			(12)	MOUNT AS NOTED
	FAN MOTOR OUTLET - CEILING OR AS NOTED				
	TELEPHONE OUTLET			(6)	
	VEHICLE EXHAUST FAN SWITCH				
	CARBON MONOXIDE SENSOR				
	DISCONNECT SWITCH			(7)	
	MAGNETIC STARTER WITH DISCONNECT			(7)	
	MULTI-MEDIA STRUCTURED CABLING OUTLET				
	MAIN POWER PANEL				
	PANEL BOARD				
	EMERGENCY LIGHT FIXTURE			(1)	(2)
	OVERHEAD DOOR CONTROL				
WIRING IN CND IN CEILING OR WALL					
WIRING IN CND IN GROUND OR FLOOR					
CONDUIT TURNED UP					
CONDUIT TURNED DOWN					
CIRCUIT HOME RUN TO PANEL. 3 CONDUCTORS INCLUDING THE EQUIPMENT GROUND CONDUCTOR.					
CIRCUIT HOME RUN TO PANEL. NUMBER OF ARROW HEADS INDICATE NUMBER OF CIRCUITS. SLASH MARKS INDICATE NUMBER OF CONDUCTORS. EX. TWO CIRCUITS, FOUR CONDUCTORS, COMMON NEUTRAL AND THREE CIRCUITS WITH 7 CONDUCTORS (SEPERATE NEUTRAL PER CIRCUIT). BOTH EX. INCLUDE AN EQUIP. GROUND.					
INSTALL CONDUIT AS DRAWN ON THE PLANS. THE ONLY EXCEPTIONS ARE THOSE AUTHORIZED IN WRITINGS BY THE ENGINEER. ALL CONDUITS SHALL INCLUDE AN EQUIPMENT GROUND CONDUCTOR SIZED PER NEC.					
ABBREVIATIONS/NOTES					
AFF - ABOVE FINISHED FLOOR, AFG - ABOVE FINISHED GRADE, AIC - AMPS INTERRUPTING CAPACITY, BC - BARE COPPER, BFC - BELOW FINISHED CEILING, BFG - BELOW FINISHED GRADE, CND, OR C - CONDUIT, CT - CURRENT TRANSOUICER, DFA - DROP FROM ABOVE, EC - ELECTRICAL CONTRACTOR, GC - GENERAL CONTRACTOR, MC - MECHANICAL CONTRACTOR, MCA - MINIMUM CIRCUIT AMPS, P.C. - PLUMBING CONTRACTOR, POC - POINT OF CONNECTION, POS - POINT OF SALES, RMC - RIGID METAL CONDUIT, SCA - SHORT CIRCUIT AMPERES, TC - TEMP. CONTROL CONTRACTOR, VA - VOLT/AMPS, VIF - VERIFY IN FIELD, WP - WEATHER PROOF/NEMA 3R					
(1) SEE LIGHTING FIXTURE SCHEDULE FOR TYPE AND SPECIFICS.					
(2) SEE LIGHTING FIXTURE SCHEDULE FOR MOUNTING OF FIXTURE.					
(3) WIRE FIXTURE FROM ADJACENT J-BOX					
(4) DO NOT SWITCH					
(5) PROVIDE DIRECTIONAL ARROWS AS SHOWN ON THE DRAWINGS BY THE DARKENED AREA					
(6) ACCEPTABLE EQUALS ARE P4s, LEVITON, COOPER, HUBBELL					
(7) ACCEPTABLE EQUALS ARE GENERAL ELECTRIC, ALLEN-BRADLEY, SQUARE D					
(8) ACCEPTABLE EQUALS ARE LEVITON, P4s, HUBBELL, COOPER					
(9) PROVIDE MUD RING AND/OR BOX COVER APPROPRIATE FOR DEVICE/FIXTURE SERVED					
(10) USE HEAVY DUTY FOR 480 VOLT.					
(11) ACCEPTABLE EQUALS ARE HUBBELL, ORTRONICS, SIEMON					
(12) SWITCH WITH LIGHTS UNLESS INDICATED OTHERWISE.					
(13) PROVIDE RECEPTACLE CONFIGURATION AND NUMBER OF CONDUCTORS REQUIRED BY EQUIPMENT.					

LIGHT-FIXTURE SCHEDULE						
DESCRIPTION	LAMPS					
TYPE	MANUFACTURER	CATALOG NUMBER	No	TYPE	VOLTS	MOUNTING
8' 4-LAMP INDUSTRIAL FLUORESCENT FIXTURE						
L1	METALUX	8TDM232-120V-EB82	4	F32T8SP85	120	PENDENT
						124 VA
RECESSED FLANGED 2'X4' 3-LAMP FLUORESCENT FIXTURE						
L2	METALUX	2FC8-392A-120VEB82	3	F32T8SP85	120	RECESSED
						98 VA
SURFACE MOUNTED FLUORESCENT WRAP AROUND FIXTURE						
L3	METALUX	WS232A-120VEB81	2	F32T8SP85	120	SURFACE
						68 VA
EMERGENCY BATTERY PACK						
L4	SURELITES	CG7NC8D-5M	2	6/W UNIT	120	SURFACE
						20 VA
LED EXIT SIGN						
L5	SURELITES	LPXTODS-1H	-	LED	120	UNIV.
						20 VA
OUTDOOR 250W METAL HALIDE WALLPACK						
L6	LUMARK	MMHL250-120V	1	250W/MH	120	SURFACE
						300 VA
OUTDOOR 400W METAL HALIDE FLOOD LIGHT						
L7	McGRAN EDISON	AMF-Y-400MH-MT-T6-BK	1	400W/MH	120	WALL
						480 VA
100W METAL HALIDE FIXTURE						
L8	LUMARK	MMHL100-120V	1	100W	120	WALL
						182 VA
230W METAL HALIDE FIXTURE						
L9	LUMARK	MMHL230-120V	1	230W/MH	120	
						300 VA
NOTE: THE FIXTURES LISTED IN THIS SCHEDULE REPRESENT THE QUALITY AND TYPE OF FIXTURES DESIRED. EQUALS OF THOSE MANUFACTURERS NOTED IN THE REMARKS ARE ACCEPTED. FOR THOSE FIXTURES WITHOUT A MANUFACTURE DESIGNATION IN THE REMARK COLUMN THE SUPPLIER MAY SUBMIT A FIXTURE THEY BELIEVE TO BE EQUAL TO THE ONE SPECIFIED. TO BE ACCEPTABLE THE FIXTURES SUBMITTED MUST BE OF THE SAME TYPE AND MATERIAL AS THAT SPECIFIED AND MUST RECEIVE APPROVAL FROM THE ENGINEER BY ADDENDUM PRIOR TO BID.						
(1) PROVIDE TWO BALLASTS FOR INBOARD/OUTBOARD SWITCHING.						

MECHANICAL EQUIPMENT SCHEDULE							
MARK	DESCRIPTION	ELECTRICAL					
		V/PH	MCA	MOCP	LMHP	DISCONNECT SIZE/POLE	FUSE SIZE
AG-1	AIR COMPRESSOR	240/1	15.0	35.0	3.0		25AF
B-1	RADIANT HEATER	120/1	1.0			60/2	
CU-1	CONDENSER	230/1	12.0	20.0			
EF-1	EXHAUST FAN	120/1	0.4				
EF-2	EXHAUST FAN	230/1	8.0	15.0	1.0		
F-1	FURNACE	120/1	11.4	15.0	1/2	20A SWITCH/1	NF
P-4	DRINKING FOUNTAIN	120/1	4.8	15.0			
VP-1	VACUUM PUMP	120/1	4.8	15.0	1/8	20A SWITCH/1	NF
WELL	WELL PUMP	240/1	11.0	35.0	3	60A/2	25AF
LM	LOUVER MOTOR	120/1	1.5				
V/PH/Hz = VOLTAGE / PHASE / HERTZ MCA = MINIMU CIRCUIT AMPACITY MOCP = MAXIMUM OVER CURRENT PROTECTION LISTED BY THE MANUFACTURER NF = NON-FUSED LMHP = LARGEST MOTOR HORSE POWER							
NOTES: (1) UNIT FURNISHED WITH DISCONNECT INSTALLED BY EC. (2) SWITCH WITH LIGHT FIXTURE (3) PROVIDE NEMA 1 DISCONNECT. FUSE TO MAX FUSE SIZE AS LISTED BY MANUFACTURER (4) INTERLOCK LOUVER MOTOR WITH FAN MOTOR. COORDINATE WITH MC. (5) PROVIDE COMBINATION STARTER (SQUARE D 8558-98661V02-CF15X20Y74) (6) PROVIDE DISCONNECT DEVICE AS REQUIRED BY UNIT.							

CONDUIT/CONDUCTOR SCHEDULE						
MARK	AMPS	CONDUIT CABLE QTY	CONDUCTOR SIZE	INSUL.		REMARKS
(212)	20	3/4"	2	12	(1)	(2)
(412)	20	3/4"	4	12	(1)	(2)
(20)	30	3/4"	2	10	(1)	(2)
(28)	50	3/4"	2	8	(1)	(2)
(28)	65	1"	2	6	(1)	(2)
(38)	100	1 1/4"	3	3	(1)	(2)
(3-4)	335	3"	3	400	(1)	(2)
(350)	200	2 1/2"	3	3/0	(1)	(2)
NOTE: (1) THHN/THWN-2. (2) ALL CONDUIT SHALL CONTAIN A SEPARATE EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH THE NEC. ACCOUNT FOR PARALLEL RUNS. SUFFIX: "A" INDICATES ALUMINUM CONDUCTORS "Y" INDICATES YELLOW ISOLATED GROUNDS CONDUCTOR IN ADDITION TO THE GROUND CONDUCTOR IN NOTE ABOVE.						

GENERAL NOTES	
1. THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS AND BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR, OMISSION OR CONFLICT EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING HIS BID PRICE SO A CHANGE CAN BE ISSUED IN A PRE-BID ADDENDUM. OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIER SHALL SUPPLY THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS AT THEIR OWN EXPENSE. WHEN EACH ELECTRICAL SYSTEM IS COMPLETE, THE CONTRACTOR SHALL TEST AND CONFIRM IT'S PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE.	
2. THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS THEY APPLY. THE ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR IF EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE PLANS.	
3. NO ADDITIONS TO THE CONTRACTOR BID WILL BE ALLOWED FOR CHANGES MADE NECESSARY BY INTERFERENCE WITH OTHER WORK.	
4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS - ARCHITECTURAL, MECHANICAL, ETC.	
5. THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH LOCAL AND STATE CODES AND THE NEC. IF AT ANY TIME DURING CONSTRUCTION OR AFTER SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THE CODES LISTED ABOVE, IT SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE.	
6. ELECTRICAL CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF THE POWER COMPANY SERVICE TRANSFORMER, BEFORE INSTALLING THE PAD AND SERVICE CONDUIT.	
7. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE SERVICE FEEDER TO THE BUILDING WITH THE LOCAL UTILITY. PROVIDE LABOR AND CONDUIT, CONDUCTORS, WEATHER HEAD (IF AERIAL FEED), WIRE WAYS, TRANSFORMER LUGS, METER BASES, METER CONDUIT, CONDUCTORS, ETC., AS NEEDED FOR A COMPLETE ELECTRIC SERVICE TO THIS FACILITY.	
8. THE EC SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE EC SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.	
9. THE CONTRACTOR SHALL NOTIFY THE MANUFACTURER THAT THE LAYOUT AND DIMENSIONS ARE CRITICAL FOR ALL PANELS, SWITCHGEAR, ETC. AND NO PIECE OF EQUIPMENT SHALL EXCEED THE PHYSICAL SIZE INDICATED ON THE PLANS.	
10. ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL PANELS OR CABINETS AND SHALL MOVE THE PANELS AT HIS EXPENSE IF REJECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.	
11. THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LIGHT FIXTURE, ETC. A DISTANCE OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT.	
12. THE ELECTRICAL CONTRACTOR SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES.	
13. TO ASSURE ALL DEVICES ARE RIGIDLY SET, THE ELECTRICAL CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS, HANGERS, ETC. DESIGNED FOR THE APPLICATION. ANY DEVICE BOXES NOT SECURED WILL BE MADE SECURE AT THE CONTRACTORS EXPENSE.	
14. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE TELEPHONE SERVICE CONDUIT WITH A NYLON PULL CORD INSTALLED. EC SHALL CONFIRM ROUTING, SIZE, AND LOCATION OF THE TELEPHONE SERVICE CONDUIT, AND THE MAIN TELEPHONE BOARD WITH THE TELEPHONE COMPANY AND EACH TELEPHONE OUTLET WITH OWNER PRIOR TO ROUGH-IN.	
15. EC SHALL INSTALL A 3/4" CONDUIT WITH (1) #6 BARE COPPER CONDUCTOR FROM TELEPHONE PANEL TO THE MAIN GROUNDING BUS.	
16. BEFORE ANY ELECTRICAL CONDUIT, BOXES, ETC. ARE COVERED (FLOOR, CEILINGS, WALLS, ETC.), THEY SHALL BE APPROVED BY THE INSPECTING OFFICER (INSPECTOR). THE UNCOVERING AND REPLACEMENT OF ELECTRICAL WORK FOR THE INSPECTION PURPOSES WILL BE AT THE COST OF THE ELECTRICAL CONTRACTOR.	
17. LIGHT FIXTURES INSTALLED IN THE MECHANICAL ROOM SHALL BE PLACED SO THAT ALL EQUIPMENT IS ADEQUATELY ILLUMINATED AFTER THE MECHANICAL EQUIPMENT IS IN PLACE.	
18. ALL FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND NOT THE CEILING GRID.	
19. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT WITH PULL CORD, FROM ALL HEATING/COOLING EQUIPMENT TO THE THERMOSTAT, FOR THE AUTOMATIC TEMPERATURE SYSTEM CONTROL. CONFIRM AND COORDINATE WITH THE MECHANICAL CONTRACTOR.	
20. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL THE STRUCTURED CABLING FROM EACH TELEPHONE OR MULTIMEDIA OUTLET TO THE TELEPHONE/DATA BOARD/RACK. THE CABLE SHALL BE LABELED ON EACH END FOR PROPER IDENTIFICATION BEFORE THE CABLE ENDS ARE TERMINATED. THE ELECTRICAL CONTRACTOR SHALL TERMINATE THE CABLES IN THE OUTLET AND IN THE PATCH PANEL OR BLOCK IN THE TELECOMMUNICATIONS CLOSET.	
21. AFTER THE FACILITY IS COMPLETE AND BEEN IN FULL OPERATION FOR TWO WEEKS THE ELECTRICAL CONTRACTOR SHALL OBTAIN THE UTILITY DEMAND, THE SYSTEM VOLTAGE (PHASE TO PHASE AND PHASE TO GROUND) AND AN AMMETER READING (EACH PHASE) ON THE MAIN FEEDERS. THESE READINGS SHALL BE OBTAINED DURING NORMAL OPERATING HOURS FOR THE FACILITY AND SHALL BE RECORDED AND A COPY SENT TO THE ENGINEER.	
22. DURING CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL REMOVE, REROUTE, AND/OR RELOCATE ANY EXISTING ELECTRICAL EQUIPMENT THAT CONFLICTS WITH THE REMODEL OR ADDITION. ALL SYSTEMS SHALL BE OPERABLE AT THE COMPLETION OF THE PROJECT. EQUIPMENT THAT IS NOT REUSED BECOMES THE PROPERTY OF THE ELECTRICAL CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES.	
23. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN ELECTRICAL CONTINUITY TO REMAINING EQUIPMENT WHEN ANY EXISTING ELECTRICAL EQUIPMENT IS REMOVED.	

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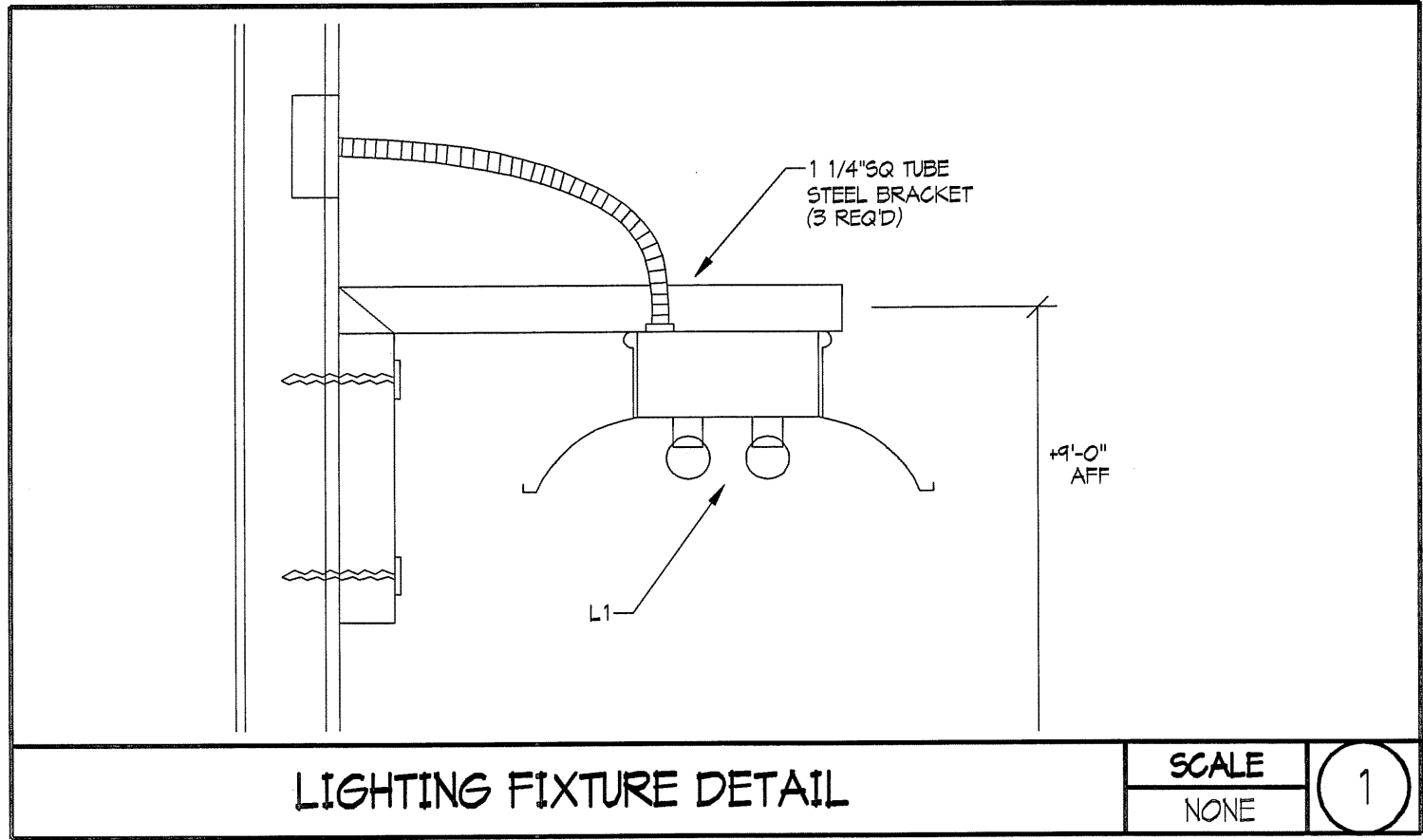
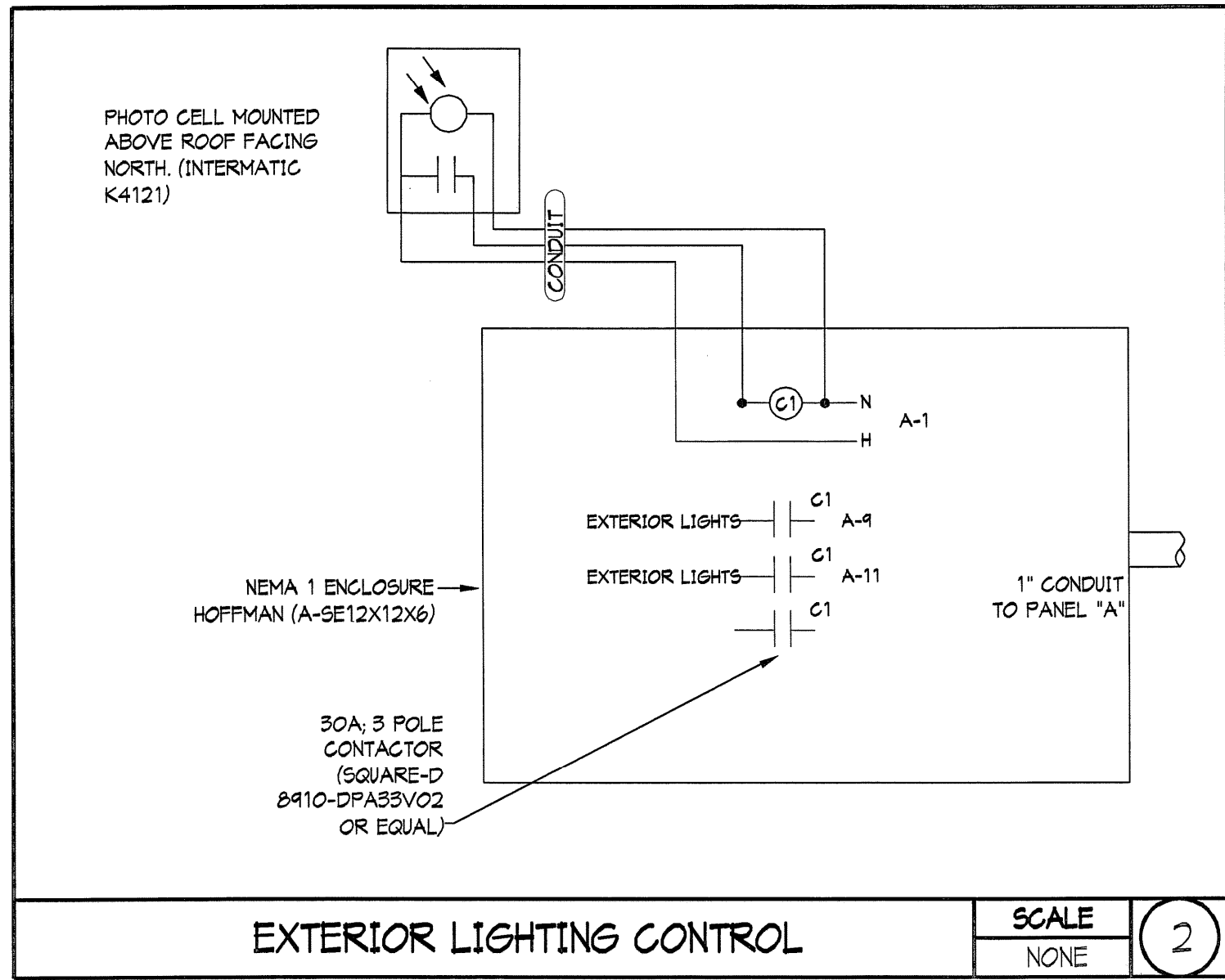
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CHECKED BY: SWJ		
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SHEET TITLE

GENERAL NOTES, SCHEDULES

E001



- KEY NOTES
- SERVICE DISCONNECT. PROVIDE A 400 AMP, TWO POLE, NEMA 5R, FUSED DISCONNECT, FUSED 350 AMPS. INSTALL THE DISCONNECT ON THE SIDE OF THE BUILDING. SEE SHEET E201.
 - PROVIDE A MAST, WEATHERHEAD AND CONDUCTORS ON THE POLE DOWN TO THE METER BASE AS REQUIRED BY THE POWER COMPANY.
 - PROVIDE A 320 AMP METER BASE THAT COMPLIES WITH ALL REQUIREMENTS OF THE POWER COMPANY. INSTALL THE METER BASE ON THE POWER COMPANY POLE AND INSTALL THE NEW SERVICE DROP AND SERVICE ENTRANCE CONDUCTORS AS SHOWN. GROUND THE METER BASE AS REQUIRED BY THE POWER COMPANY.
 - EG SHALL PROVIDE 30' OF #4 AWG BARE COPPER ENCASED IN AT LEAST 2" OF CONCRETE LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH PER 2005 NEC SECTION 250.52 (A)(3).
 - POWER COMPANY EXISTING POLE AND NEW POLE MOUNTED TRANSFORMER. COORDINATE WITH THE POWER COMPANY FOR THE REQUIREMENTS AND PROVIDE A COMPLETE ELECTRICAL SERVICE TO THE FACILITY.
 - DO NOT PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN THIS CONDUIT FROM THE METER TO THE SERVICE DISCONNECT.

M				VOLTAGE		120 / 240		MOUNTING		FEED		400		MAINS		DIMS.		SPECIAL EQUIPMENT		
PANEL				GOOD								20'		W		X		GROUND BUS		
TYPE				MEZZANINE		PHASE 1 WIRES		3		FLUSH		TOP		X		LUGS		3.75" D		
LOCATION				AIC 10000 AMPS		X		SURFACE		X		BOTTOM		BREAKER		62" H		SURGE PROTECTOR		
CIR NO	CIRCUIT DESCRIPTION	CODE	LTS	CO	MIS P	BRKR SIZE	WIRE SIZE	CIRCUIT LOAD	COMBINED PHASES		CIRCUIT LOAD	WIRE SIZE	BRKR SIZE	F	MIS	CO	LTS	CODE	CIRCUIT DESCRIPTION	CIR NO
1	PANEL A	13	1	2	200	-	-	10108	10108										SPARE	2
3						-	-	9632			9632								SPARE	4
5	OVERHEAD DOOR					1	20	10	1200	1200									SPARE	6
7	OVERHEAD DOOR					1	20	10	1200		1200								SPARE	8
9	OVERHEAD DOOR					1	20	10	1200	1200									SPARE	10
11	OVERHEAD DOOR					1	20	10	1200		1200								SPARE	12
13	OVERHEAD DOOR					1	20	10	1200	1200									SPARE	14
15	HEAT CABLE	6				1	20	10	1200		1200								SPARE	16
17	HEAT CABLE	6				1	20	10	1200	1200									SPARE	18
19	HEAT CABLE	6				1	20	10	1200		1200								SPARE	20
21	HEAT CABLE	6				1	20	10	1200	1200									SPARE	22
23	VEHICLE FLUG					1	20	12	1200		1200								SPARE	24
25	VEHICLE FLUG					1	20	10	1200	2560		1360	12	15	1				F-1	26
27	VEHICLE FLUG					1	20	10	1200		1200			35	2				SPARE	28
29	VEHICLE FLUG					1	20	10	1200	1200				-					SPARE	30
31	VEHICLE FLUG					1	20	10	1200		3000	1800	35	2	1				AC-1	32
33	SPARE					1	20		1800			1800		-					SPARE	34
35	SPARE					1	20		1440		1440	1440	20	2	1				CU-1	36
37	SPARE					1	20		1440		4800	4800	50	2	1				SPARE	38
39	SPARE					2	20		-		4800	4800	50	2	1				WELDER	40
41						-	-		4800			4800								42
NOTE:										PHASE TOTALS		CONN LOAD		CODES						
										VA DIV		27006		54 KVA		1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE				
										AMPS		233		AV. AMPS		2 = SHUNT-TRIP BREAKER 5 = GFCI BREAKER				
														275 A		3 = SUBFEED BREAKER 6 = GFCI BREAKER				
																4 = PROVIDE LOCK OFF DEVICE				
THIS PANEL, ALL OF ITS WIRES, BREAKERS, ETC. SHALL BE RATED FOR 75 °C																				

